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NSTL PC Digest, September 1997

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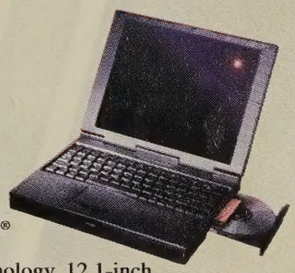

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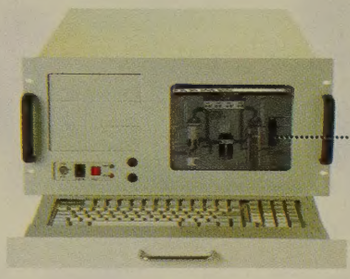

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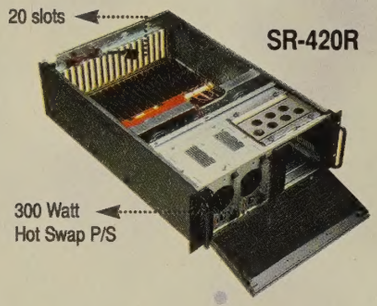

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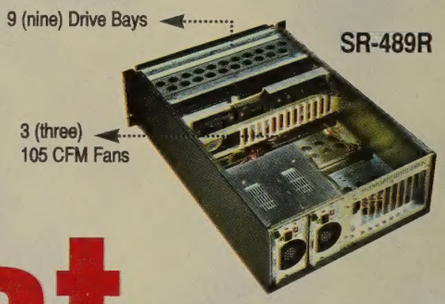

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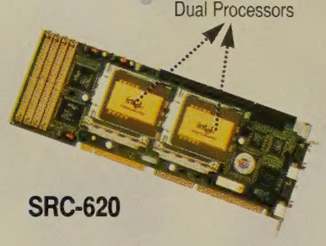

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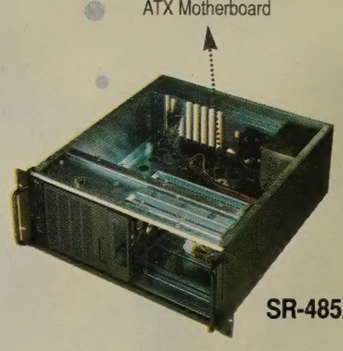

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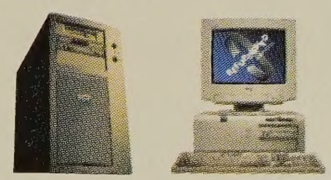

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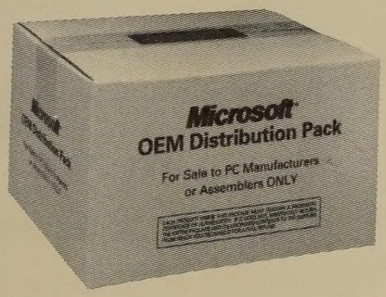

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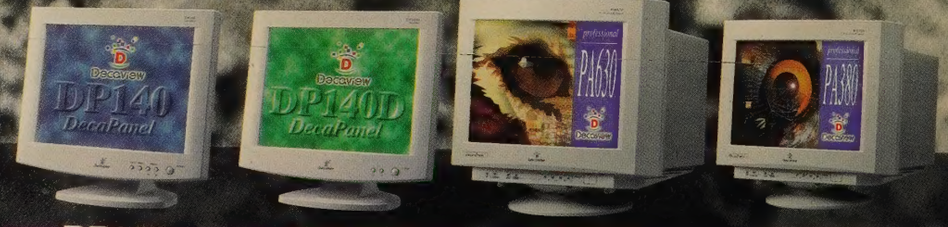

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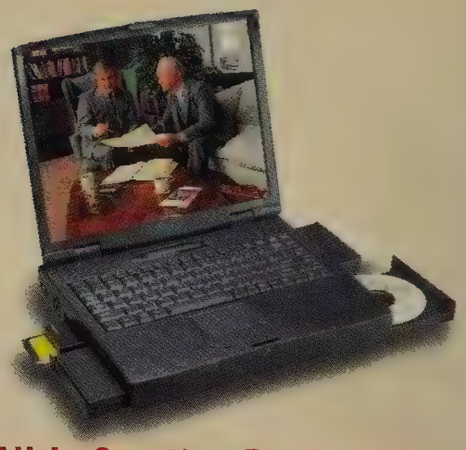

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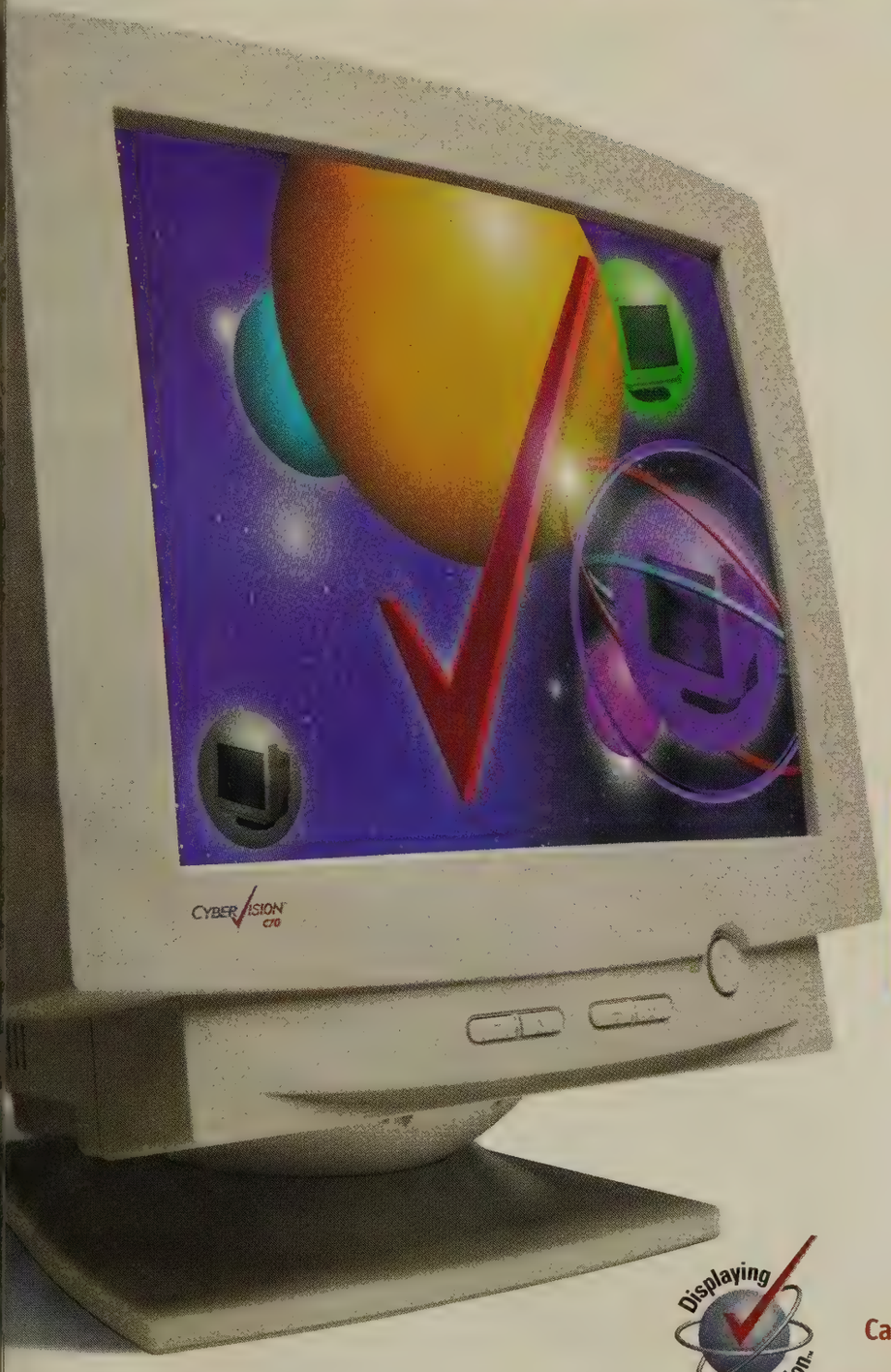

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Screen Size	14" (13.2" viewable)	15" (13.8" viewable)	15" (13.8" viewable)	17" (16.0" viewable)	17" (16.0" viewable)	19" (18.0" viewable)
Dot Pitch	.28mm	.28mm	.28mm	.27mm	.26mm	.26mm
Maximum Resolution	1024x768	1024x768	1280x1024	1280x1024	1280x1024	1600x1200
Refresh Rate/Resolution	75Hz/800x600	75Hz/800x600	87Hz/1024x768	87Hz/1024x768	87Hz/1024x768	79Hz/1280x1024
Horizontal Scan Frequency	30-50kHz	30-50kHz	30-70kHz	30-70kHz	30-70kHz	30-85kHz
Vertical Scan Frequency	50-90Hz	50-90Hz	50-90Hz	50-90Hz	50-120Hz	50-150Hz
Display Type	Digital	Digital	Digital	Digital	Digital	Digital
Plug and Play	Yes	Yes	Yes	Yes	Yes	Yes
Low Radiation	Low	MPR-II	MPR-II	MPR-II	MPR-II	TCO-'92
OSD	No	No	Yes	Yes	Yes	Yes

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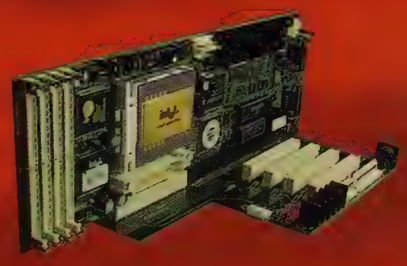

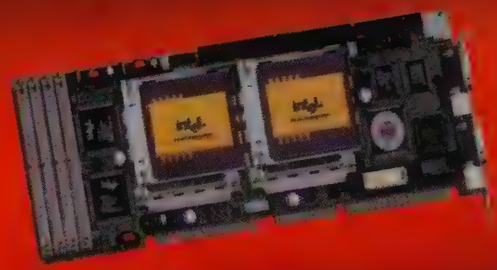

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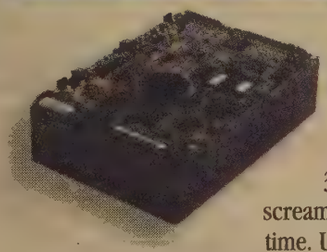

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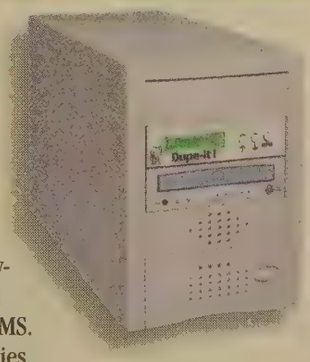

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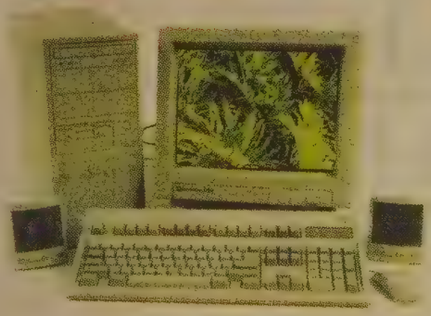

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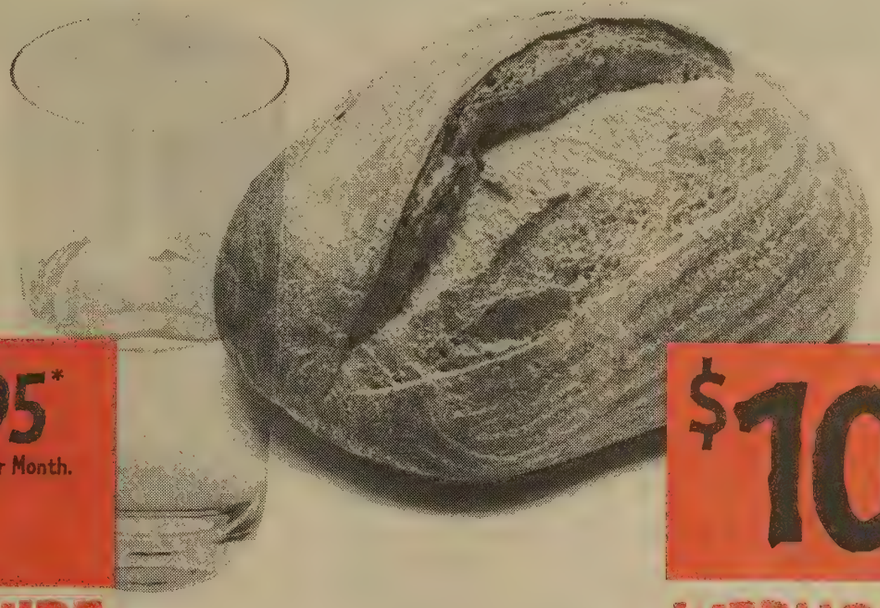

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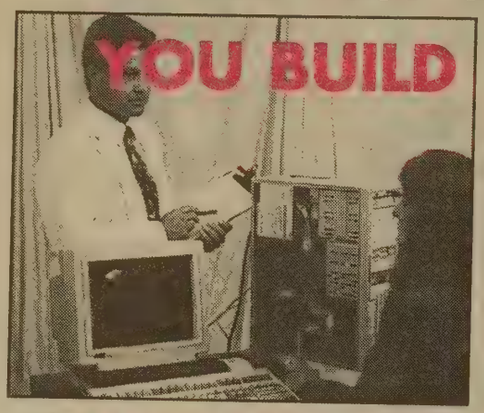

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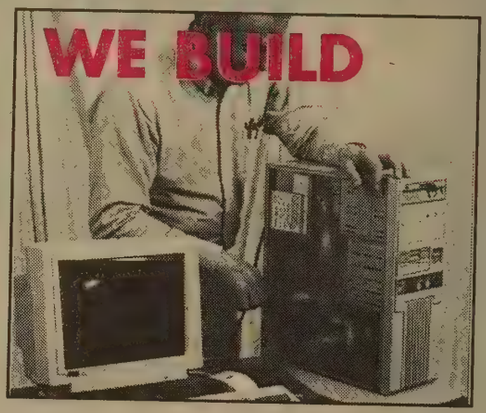

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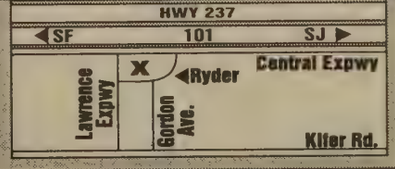

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January 1, 1998 • Issue #174

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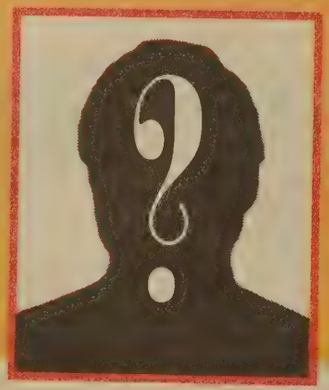

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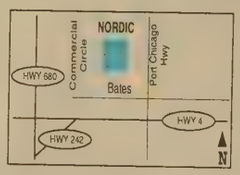

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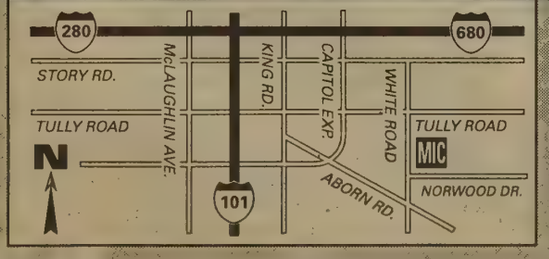

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Warren is one of the named plaintiffs in the constitutional challenge against the Communications Decency Act, that was overturned in June, 1997, by the U.S. Supreme Court.

He founded InfoWorld, was founding host of PBS' *Computer Chronicles*, founding editor of *Dr. Dobb's Journal* and served half a decade on the Board of Directors of Autodesk, Inc.

He has received the Hugh M. Hefner First Amendment Award (1994), James Madison Freedom-of-Information Award from the Society of Professional Journalists—Northern California (1994), the Electronic Frontier Foundation Pioneer Award (1992, its first year) and the John Dvorak Lifetime Achievement Award (1995).

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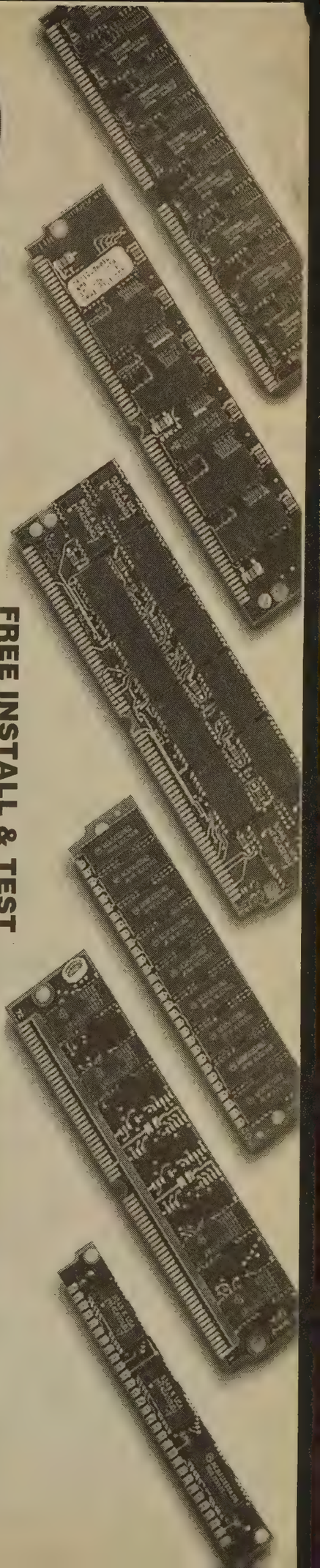

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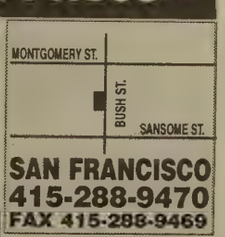

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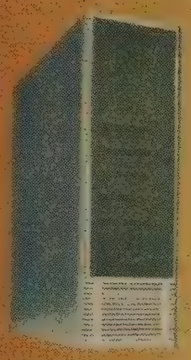

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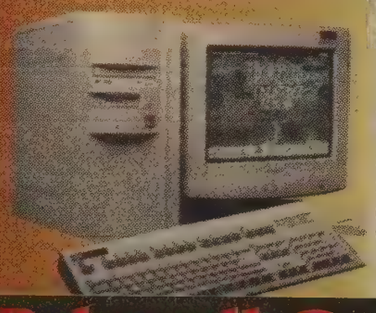

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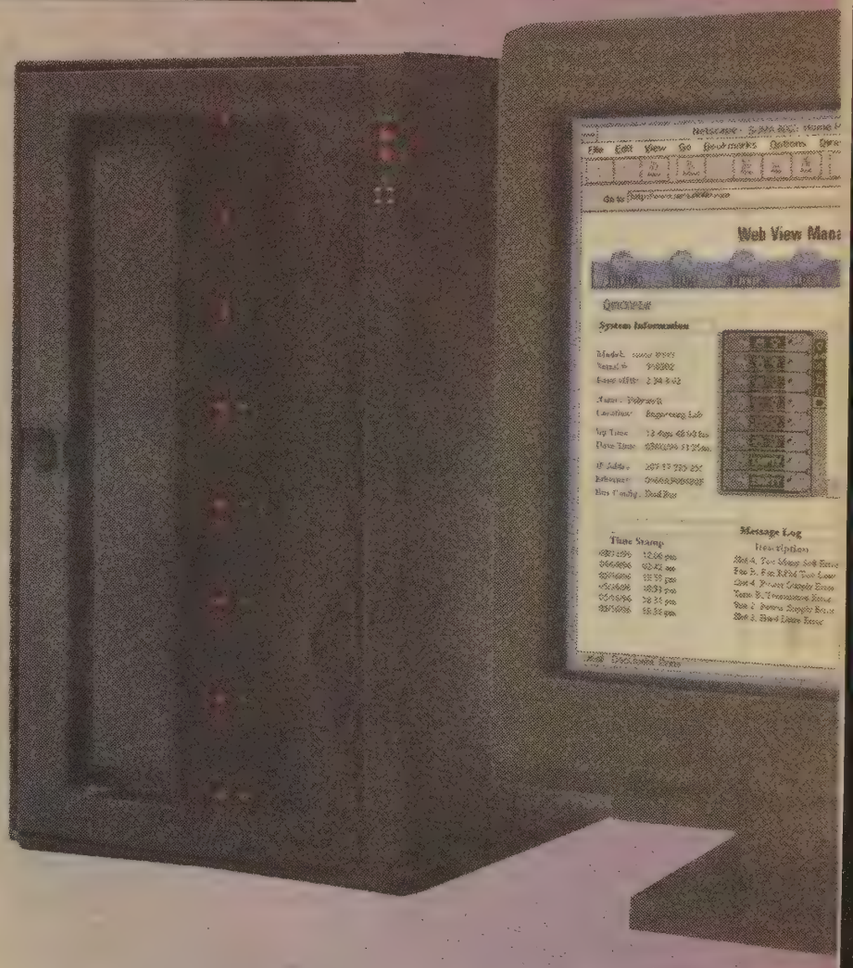

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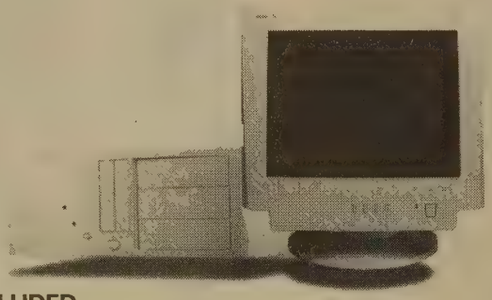

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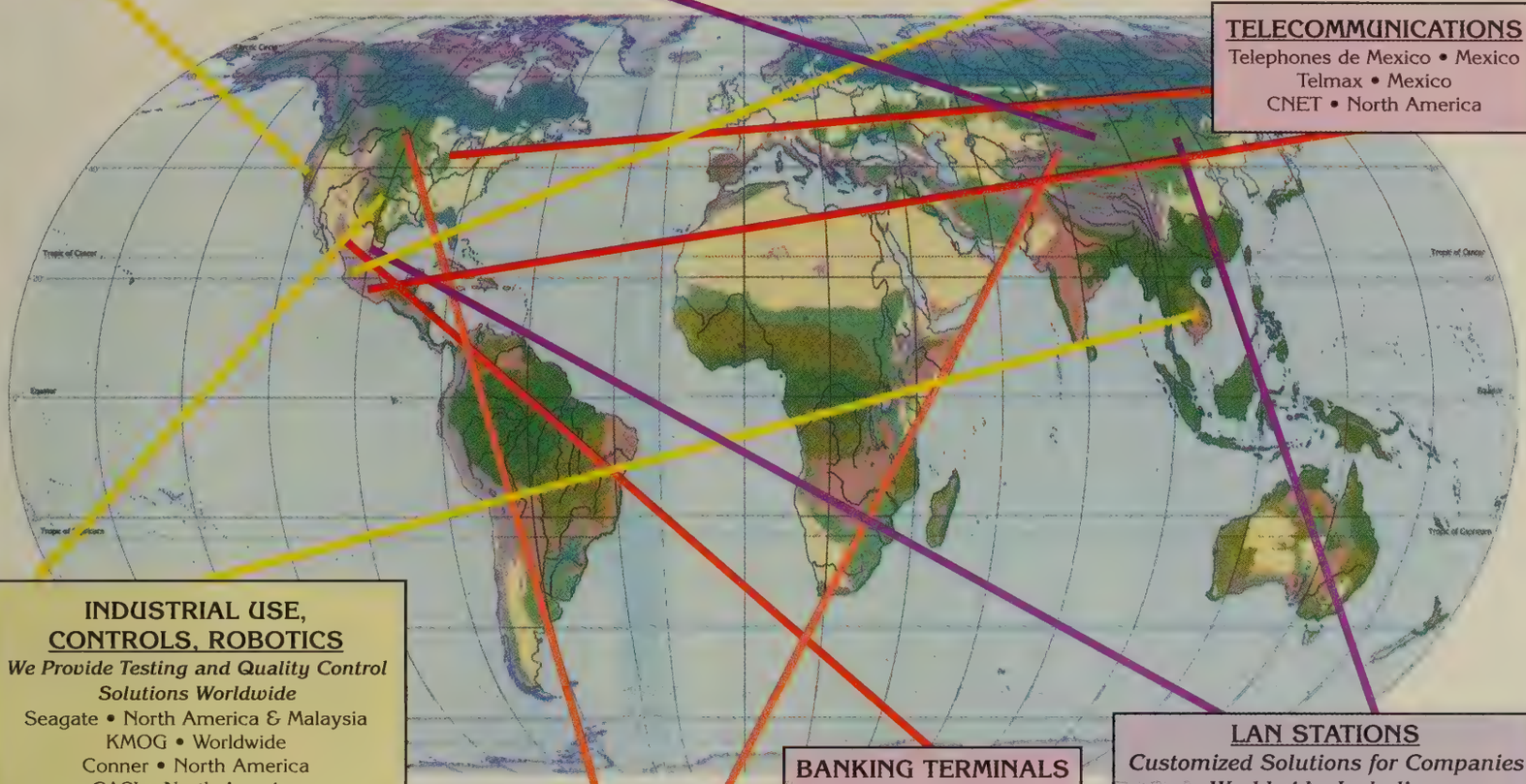

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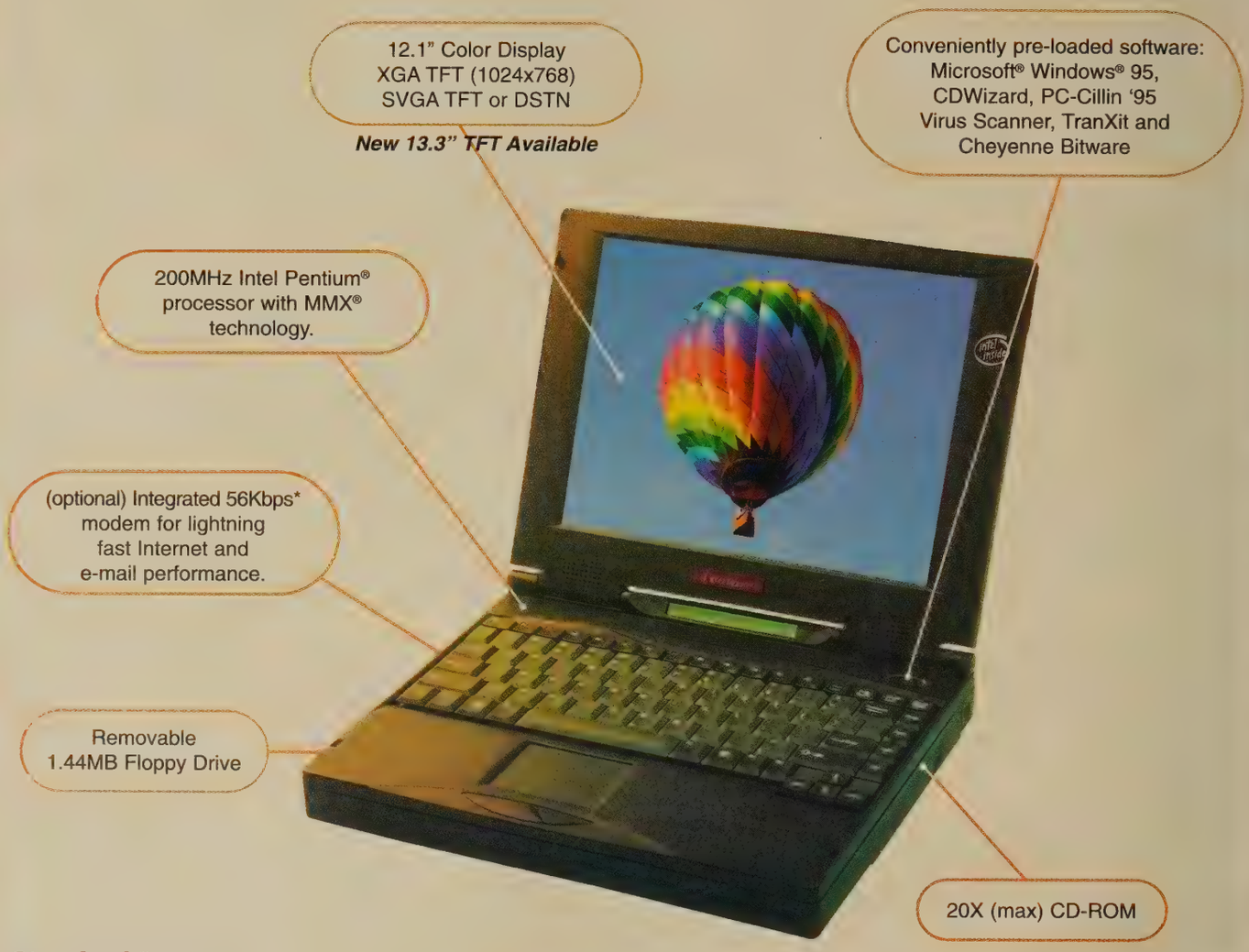

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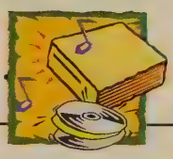

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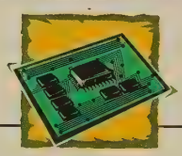

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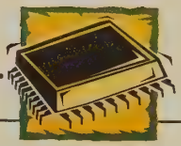

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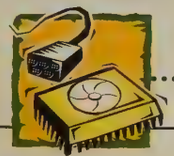

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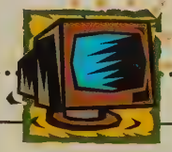

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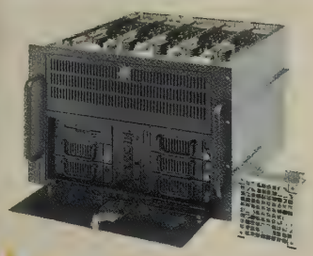

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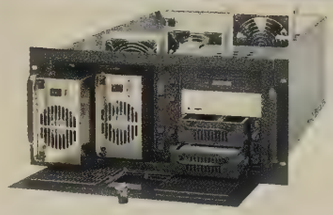

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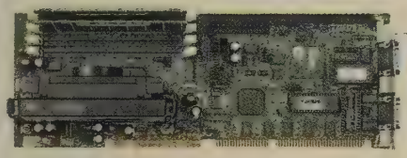

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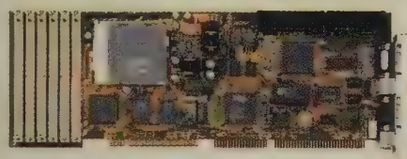

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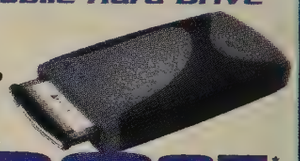

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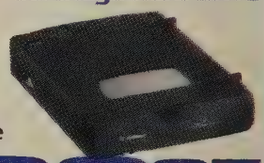

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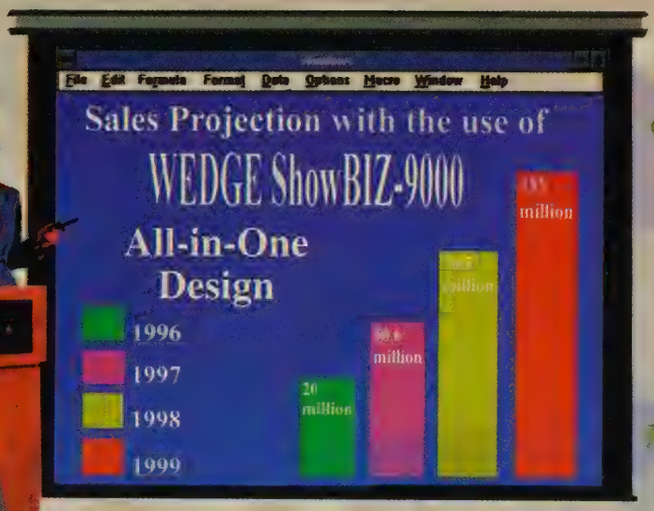

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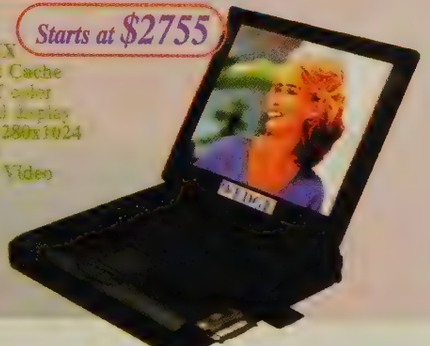

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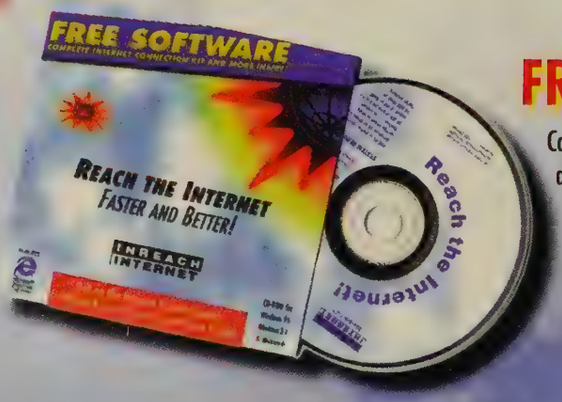

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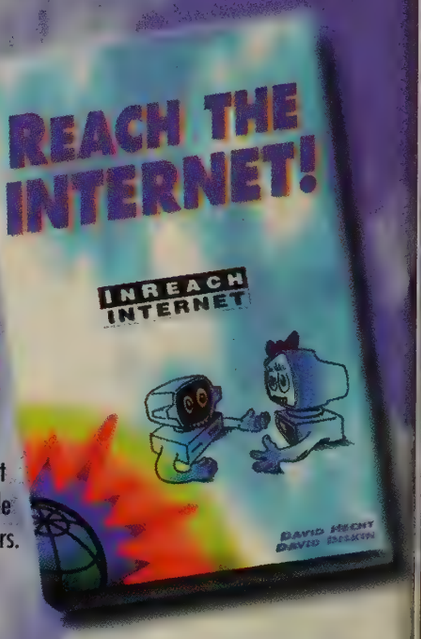

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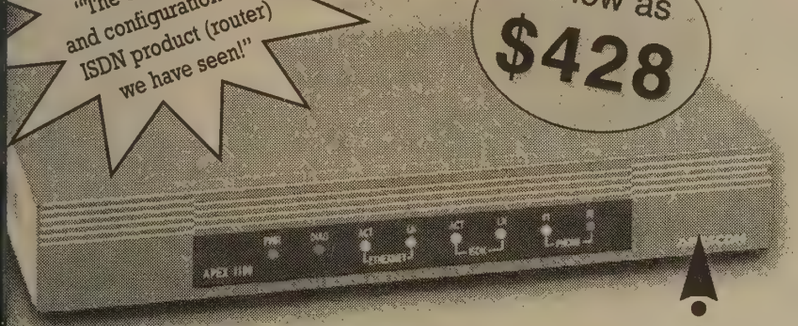

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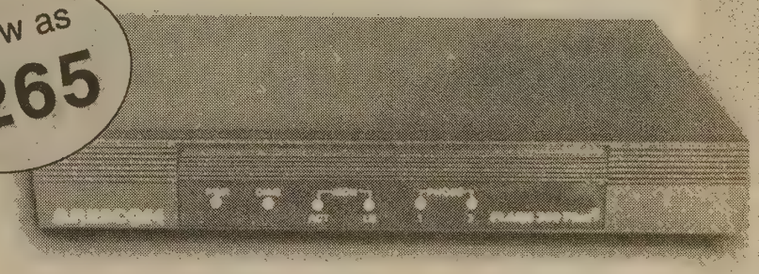

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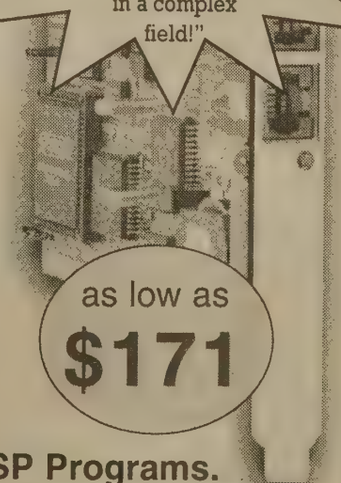

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BY PAUL HOFFMAN

Industry Insights

Inquiring Feds Want To Know: Is Internet Explorer Part Of Windows 95?

Never try to win a game with someone who gets to make up all the rules.

That should be the lesson learned by the computer industry when it comes to dealing with Microsoft. But given that Microsoft controls more and more of everything, it leaves fewer and fewer areas to compete in. Now Microsoft says that it, and no one else, gets to define what is part of the operating system and therefore is Microsoft's domain.

Recently, the US Justice Department sued Microsoft for unfair practices because Microsoft forces PC makers who want to include Windows 95 on their systems to refrain from changing the initial look of the screen unless Microsoft allows them to. The case revolves around Internet Explorer and Microsoft's assertion that Internet Explorer is part of the Windows 95 operating system—so Microsoft (and not the PC makers) should decide how users access it. In fact, this is a thinly veiled attempt to push Netscape out of the Web browser business.

Microsoft acted like a schoolyard bully, insisting to its customers like Compaq that only Microsoft could make the rules. Companies that wanted to remove Microsoft's "The Internet" icon from the machine desktops before shipping them, and replacing it with the icon for Netscape's Web browser, were told in no uncertain terms that they couldn't. The Justice Department sued Microsoft; Microsoft, meanwhile, has not denied that it acted like a bully, just that it was justified in doing so.

Who Makes The Rules?

In Microsoft's consent decree with the Justice Department in 1995, it agreed not to force PC makers to include Microsoft products that weren't part of the operating system in their computers. However, the definition of what was the operating system was not clearly spelled out, allowing Microsoft to attempt to define what is and isn't part of the operating system. They decided a Web browser was part of the operating system, and that therefore Internet Explorer must be included if they said so.

If Microsoft is free to declare "now that we have one, a Web browser is part of the operating system," there can never be an agreement with them that limits what they can do with their operating systems.

Well, almost. In fact, many people at Microsoft knew that a Web browser was not part of the operating system, especially if it was as loosely coupled to the operating system as Internet Explorer is. That is, any company (Netscape, for example) can create an alternate Web browser that can be installed and essentially replace Internet Explorer. This leads longtime computer users to think that that feature isn't really part of the operating system: it's a convenient add-on.

Yet this goes to the core of the Justice Department's lawsuit: Who decides what is part of the operating system? If Microsoft is free to declare "now that we have one, a Web browser is part of the operating system," there can never be an agreement with them that limits what they can do with their operating systems. The only upside to this situation is that, having now said that the Web browser is part of the operating system, they can never try to sell it to you; it will always be free.

Blame It On Apple

Until 1984, the limits of what was and wasn't part of an operating system were not that important in the PC world. The early operating systems like MS-DOS and CP/M had a very small set of features. They had programming hooks that were only usable by programmers; they had rudimentary file-listing capabilities; they had ways of copying and renaming and deleting files, and that's about all. Oh, and they had very simple text editors so you could edit some of the system configuration files.

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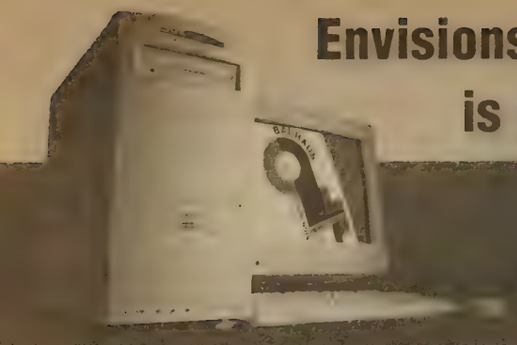

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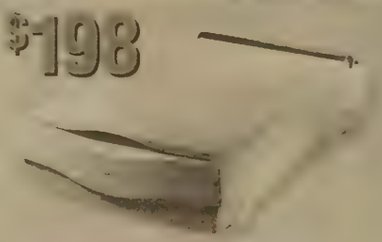

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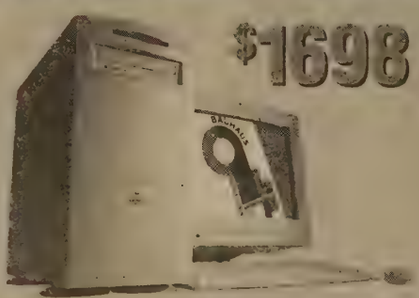

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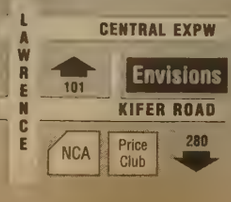

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Industry Insights *continued...*

programs that had never been seen on other operating systems: MacWrite and MacPaint, which were word processor and art programs. Mac buyers didn't pay extra for them, and Apple had included them to help show off the capabilities of this radically different machine.

No one bothered to ask whether these were free programs or new parts of the operating system. It wasn't important: they came with the Mac. So, when Microsoft finally got the first version of Windows out, it was no surprise that it too came with a simple word processor and paint program. They clearly didn't come with the computer; they came with the operating system. If Microsoft hadn't included these, it would have looked bad and made Apple, who was already making great strides, look better.

Adding New Features To The OS

So, once the door was opened on things like word processors and paint programs coming with an operating system, OS companies started adding anything else that made their OS look better. The three main types of features that became required features are network access, multimedia viewers, and multimedia creation.

Network access, of course, should be part of an operating system: it helps connect the other software on the computer to a common resource. This is precisely what an operating system should do. The Macintosh operating system has always done this better than any version of Windows, even though the Apple methods themselves were sometimes clumsy.

Multimedia viewers and multimedia creation features, however, are unrelated to a pure operating system, even though they are convenient to users, particularly to novices. They aren't central to the operation of the computer, or even to the operation of the other programs that you might run. On the other hand, providing them with the operating system allows other programs to rely on their services and prevents duplication of effort.

So, with Windows 95, Microsoft started providing more and more of these multimedia features as part of Internet Explorer. However, they are not well integrated, to say the least. When you install the Netscape browser, all of the features of Internet Explorer disappear, proving that they are not central to the operation of your computer, even if you use the Internet heavily.

How Integrated Is Integrated?

Now that this is a court case, each side will get to try to explain to the judge the technical nature of their arguments. Microsoft will get to say "we always meant that the browser was part of the operating system;" the Justice Department will get to say "no one in their right mind would have thought that;" and the judge gets to listen to all of this and make a decision. However, certain facts do speak for themselves.

Windows 95 didn't start out with a Web browser. It was first introduced as part of the Plus Pack that was an add-on you had to buy. This, in and

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Industry Insights *continued...*

of itself, is a pretty strong indication that Internet Explorer isn't too central to Windows 95. Further, the first versions of Internet Explorer were just browsers, and didn't easily allow other programs to share resources.

Microsoft threatened PC manufacturers who wanted to remove its "The Internet" icon from the desktop of the computers they shipped. The claim that this icon is central to the use of Windows 95 is ludicrous. In fact, in Microsoft's manual that comes with Windows 95, that icon is not mentioned, and using the Internet is talked about on just one page. Internet Explorer isn't mentioned at all, which speaks reams about its importance in Windows 95.

Even worse, double-clicking on the "The Internet" icon is still very confusing for novice Windows 95 users. The first time you double-click on it, it helps you set up an Internet connection, leading you to think of it as a setup icon. However, after you're set up, double-clicking on it takes you to Internet Explorer, even though the name on the icon hasn't changed. It takes an incredible amount of boldness to claim that a program like Internet Explorer is "The Internet."

True Integration Is Around The Corner

The arguments about integration between Internet Explorer and Windows 95 are about to take a very weird twist. Microsoft will release Windows 98 in the middle of 1998, at which point the Web browser will be fully integrated in the operating system. It won't be an add-on, and it is not even clear if there will be a thing called "Internet Explorer" in Windows 98. Instead, the entire user interface will be part of the browser.

This means that there will be an HTML viewer that will appear when you open some HTML content. The way you open things will be similar to the way you open documents today, but those documents might be somewhere on the Internet. Instead of feeling like you're running a browser, it should all feel like you're running Windows 98. This might be wonderful, or it might be terrible, depending on how well Microsoft tunes the user interface.

Is this over-extending the operating system? Possibly, but possibly not. If you think that the operating system should provide network services (specifically for the Internet), and if you think the operating system should help you view any kind of document, the Windows 98 model is exactly right. The Web is just a way of delivering documents; if you think that delivery and document display belong in the operating system, the "browserless" Windows 98 makes perfect sense. Internet Explorer 4 is already trying to do this with its Single Explorer (active desktop) feature, although it still feels pretty clunky and not like a real operating system.

This doesn't answer the Justice Department's lawsuit, however, since the suit is about Windows 95 and Internet Explorer. Simply claiming that Internet Explorer is tightly coupled with Windows 95 does not make it so. However, Microsoft has certainly gotten away with this kind of activity before, and can probably do it again in this case. Given how few people are expected to upgrade to Windows 98 quickly, the result of the case will affect tens of millions of PC users, and quite a number of PC makers.

And, of course, a fair number of software vendors who are trying to find some part of the software market where Microsoft won't crush them. ■

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- U.S. Robotics 56K(ext.)/Voice 178/199
- U.S.Robotics 33.6 (int)/voice 77/87
- U.S Robotics 33.6 (ext)/voice 145/165
- PCMCIA 33.6 Fax/Modem 99

A lot more items. Please call for best competitor's price !

DELUXE CASES

- Mini Tower w/ 230W PS 24
- Mid/Compact mid tower w/230W PS 37/37
- Full tower w/230 w PS.....51
- Desktop case w/ 230w PS 34
- Power Supply 230 W. AT/ATX.....22/37
- ATX mid/full tower w/ PS.....69/87

A lot more items. Please call for best competitor's price !

KEYBOARDS/MICE

- Mitsumi 104 Enhanced Keyboard(win95).....11
- Keytronic 104 win95 Enhanced(win95).....16
- M.S. Natural keyboard(w/ Sys.)/Ergo Touch...45/27
- Microsoft compatinle serial mouse 5
- Microsoft mouse (w/system only) serial/ps2...21/23
- Logitec mouseman serial/Trackman.....19/59
- Mitsumi PS2 mouse.....9

A lot more items. Please call for best competitor's price !

NETWORK/NOVELL 4.1

- Intel Etherexpress PCI 10/100 55
- 3Com ISA TP/Combo(3C509).....44/62
- 3Com PCI 10/100 (3C905) 62
- NE 2000 Combo network card ISA/PCI 16/25

A lot more items. Please call for best competitor's price !

TAPE/SCANNER/FAN

- Colorado T3000/T4000 .....155/334
- Cooling Fan w/ heat sink 486/586/686 .....7/13/19
- Artec Scanner: Handheld/Flatbed.....69/319

A lot more items. Please call for best competitor's price !

TERMS AND CONDITIONS

1. One year parts warranty on systems purchase
2. Prices and company policy subject to change w/o notice.
3. Not responsible for typographic errors
4. Return shipping must be insured, prepaid and bearing a RMA# on the shipping lebel, Buyer must pay his/her own postage for RMA
5. Shipping, insurance and COD charges are extra and non-refundable
6. List price reflect cash discount and limit to the available stock only

* See store for detail, Limit to cash discount price and stock availability. United microsystems reserves the right to make any changes without notice

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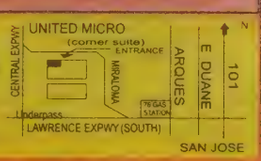

Industry Insights *continued...*

TECH STOCKS PLUMMET AMID CONTINUING ASIAN WOES

EXCH	COMPANY		TICKER SYMBOL	CLOSING PRICE 10/16/97	CLOSING PRICE 12/10/97	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD	P/E RATIO	ANNUAL IVIDEND RATE	ANNUAL DIVIDEND YIELD	ANNUAL HIGH	ANNUAL LOW
	SOFTWARE											
NAS	Adobe		ADBE	49.75	40.63	-9.13	-18.34	15	0.20	0.49	53.13	32.50
NAS	Autodesk		ADSK	47.72	37.50	-10.22	-21.41	-	0.24	0.64	51.13	25.25
NAS	Borland	(H)	BORL	9.88	9.94	0.06	0.63	-	0.00	0.00	12.19	5.38
NAS	Broderbund		BROD	30.38	33.94	3.56	11.73	-	0.00	0.00	37.75	17.75
NAS	Informix	(L)	IFMX	6.88	5.56	-1.31	-19.09	-	0.00	0.00	26.50	5.47
NAS	Macromedia		MACR	12.06	8.78	-3.28	-27.20	-	0.00	0.00	21.63	6.50
NAS	Microsoft		MSFT	133.91	142.25	8.34	6.23	53	0.00	0.00	150.75	76.38
NAS	Novell		NOVL	9.38	8.13	-1.25	-13.33	-	0.00	0.00	13.00	6.28
NAS	Oracle	(L)	ORCL	34.44	23.44	-11.00	-31.94	33	0.00	0.00	42.13	22.38
NAS	Symantec	(H)	SYMC	21.00	25.13	4.13	19.64	23	0.00	0.00	27.75	12.00
	HARDWARE											
NAS	Apple		AAPL	21.50	14.75	-6.75	-31.40	-	0.00	0.00	29.56	12.75
NYS	Compaq		CPQ	72.94	60.00	-12.94	-17.74	26	0.00	0.00	79.56	28.50
NYS	Digital Equipment	(H)	DEC	48.88	40.19	-8.69	-17.77	32	0.00	0.00	53.81	25.00
NAS	Dell	(H)	DELL	98.81	91.13	-7.69	-7.78	39	0.00	0.00	103.88	25.00
NYS	Gateway 2000		GTW	34.81	31.00	-3.81	-10.95	46	0.00	0.00	46.25	19.38
NYS	Hewlett-Packard		HWP	65.38	63.75	-1.63	-2.49	22	0.56	0.88	72.94	48.13
NYS	IBM	(H)	IBM	99.88	106.50	6.63	6.63	18	0.80	0.75	113.50	63.63
NYS	Silicon Graphics		SGI	16.25	14.00	-2.25	-13.85	56	0.00	0.00	30.31	12.63
NAS	Sun Microsystems		SUNW	42.31	37.88	-4.44	-10.49	20	0.00	0.00	53.31	25.50
NYS	Tandy	(H)	TAN	35.38	40.88	5.50	15.55	-	0.40	0.98	46.00	20.31
NYS	Xerox	(H)	XRX	85.56	74.56	-11.00	-12.86	19	1.28	1.72	88.00	49.50
	CPU'S											
NYS	Advanced Micro Devices	(L)	AMD	28.75	19.88	-8.88	-30.87	-	0.00	0.00	48.50	2.69
NYS	Cypress Semiconductor	(L)	CY	12.69	9.63	-3.06	-24.14	46	0.00	0.00	18.94	9.38
NAS	Intel		INTC	85.38	74.69	-10.69	-12.52	19	0.12	0.16	102.00	62.88
NYS	LSI Logic	(L)	LSI	24.00	21.19	-2.81	-11.72	19	0.00	0.00	46.88	18.63
NYS	Motorola		MOT	69.88	59.88	-10.00	-14.31	33	0.48	0.80	90.50	53.25
Note: Cyrix became a wholly owned subsidiary of National Semiconductor.												
	COMMUNICATIONS											
NAS	3Com		COMS	51.06	35.75	-15.31	-29.99	31	0.00	0.00	81.38	24.00
NYS	AT&T	(H)	T	43.56	57.81	14.25	32.71	19	1.32	2.28	58.50	30.75
NYS	BellSouth Corp.	(H)	BLS	47.44	56.06	8.63	18.18	18	1.44	2.57	57.50	36.88
NAS	Cisco	(H)	CSCO	81.69	85.38	3.69	4.51	49	0.00	0.00	90.88	45.25
NAS	MCI	(H)	MCIC	38.13	44.44	6.31	16.56	44	0.05	0.11	45.00	27.31
NYS	Northern Telecom		NT	107.50	94.31	-13.19	-12.27	33	0.60	0.64	113.88	57.75
	INTERNET											
NAS	Earth Link	(H)	ELNK	18.88	22.50	3.63	19.21	-	0.00	0.00	23.88	8.63
NAS	Netcom		NETC	20.25	20.75	0.50	2.47	-	0.00	0.00	21.88	7.88
NAS	Netscape		NSCP	35.56	27.63	-7.94	-22.32	-	0.00	0.00	65.00	23.50
NAS	Yahoo	(H)	YHOO	48.63	58.88	10.25	21.08	-	0.00	0.00	61.00	11.19
	MEDIA											
NYS	Disney	(H)	DIS	84.94	93.81	8.88	10.45	33	0.53	0.56	97.94	66.38
NAS	TCI	(H)	TCOMA	23.56	27.13	3.56	15.12	-	0.00	0.00	27.25	10.75

KEY: NYS = NEW YORK ASE = AMERICAN NAS = NASDAQ
(H) = NEW HIGH REACHED IN PERIOD (L) = NEW LOW REACHED IN PERIOD

MARKET DIARY:

ADVANCES	15
DECLINES	23
UNCHANGED	0
NEW HIGHS	15
NEW LOWS	5

MOST ACTIVE ISSUES:

LARGEST DOLLAR GAINER	AT&T	$ 14.25
LARGEST DOLLAR LOSER	3Com	$ -15.31
LARGEST PERCENTAGE GAINER	AT&T	32.71 %
LARGEST PERCENTAGE LOSER	Oracle	-31.94 %

	CLOSE 10/16/97	CLOSE 12/10/97	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD
MICROTIMES STOCK INDEX	10985.85	10922.22	-63.63	-0.58
DOW JONES INDUSTRIAL AVERAGE	7938.88	7978.79	39.91	0.50
STANDARD & POOR'S 500 INDEX	955.25	969.79	14.54	1.52
N.Y.S.E. COMPOSITE	502.30	507.70	5.40	1.08
NASDAQ COMPOSITE	1699.66	1596.61	-103.05	-6.06

CLOSING QUOTES FOR GRAPH:

DATE	MICRO TIMES	DOW JONES
05/08/97	9110.24	7136.62
06/05/97	9223.00	7305.29
07/03/97	9842.13	7895.81
07/31/97	11003.29	8222.61
08/28/97	10650.13	7694.43
09/25/97	11081.52	7848.01
10/16/97	10985.85	7938.88
12/10/97	10922.22	7978.79

Source: Nordby International Inc. *(http://www.nordby.com)*, Boulder, CO.
This information is based on sources believed to be reliable, and while extensive efforts are made to assure its accuracy, no guarantees can be made. Nordby International assumes no liability for any inaccuracies. For information on Nordby's customized financial research services, call (303)938-1877.

The MicroTimes Stock Index headed south as fears that the Asian Markets woes will bite into US corporate profits. Our index slipped -0.5%, or 63.63 points, to close the monthly trading period at 10922.22. The technology sector plummeted last month as was evident in the -6.06%, or 103.05 point freefall of the NASDAQ, which closed at 1596.61.

In our index, decliners outpaced advancers by a 23 to 15 margin. However, fifteen companies reached annual highs versus five that fell to a 52-week low.

Turning To Stocks In The Accompanying Table

Analysts reported that Asia's financial turmoil was beginning to crimp US corporate profits amid continued sharp falls in Asian stocks. "The Asian pot continues to boil, and the market sold off yesterday because of the realization that what happened to Oracle could happen to a lot of other companies," said Thom Brown, managing director of Rutherford Brown and Catherwood. Shares of Oracle dropped $11.00 per share, or -31.94%, to close the period at an annual low of $23.44.

Shares of Intel Corp. were also affected by the Asian woes, as the company's stock dropped $10.69 per share, or -12.52%, to $74.69. In an effort to maintain its dominant position while expanding into new market segments, Intel said it planned to unleash a broad array of Pentium II computer chips in 1998. Intel planned to pair the heart of its high-performance Pentium II chip with a variety of other technologies to produce processors tailored for PCs ranging from low-cost home computers to mainframe-class machines, the company said at a news conference.

Communications stocks managed to weather the storm of last month's trading, as 5 out of 7 stocks moved higher during the period. Investors reacted positively to AT&T's announced cost-cutting plan, resulting in the 32.71% increase in the company's stock price which closed the month at $57.81. AT&T's new chairman and chief executive, C. Michael Armstrong, plans an aggressive program of cost-cutting and targeted investments in local phone, Internet, and global services. Armstrong will centralize marketing, sell tangential assets and discontinue other operations that could possibly lead to a major write-down in the coming year. ■

COMPLETE & EXELLENT SERVICE • LOWEST PRICES

VXPRO POWER SYSTEM

- VXPro Motherboard w/512K Pipeline
- 4 SIMM & 2 DIMM Memory Sockets
- Support USB, PS2 Mouse & U-DMA
- Mini Tower Case 230W Power Suplly
- 16MB 72-Pin EDO Ram • CPU Fan
- 1.3GB EIDE HD • NEC 1.44MB FD
- S3 Virge 3D w/2MB Exp. to 4MB
- Teac 24X CD-Rom
- 3 Button Mouse • Mitsumi Win95 KB

intel.		AMD	
P166	$455	K5-166	$000
P200	$515	K6-166	$465
P166MMX	$465	K6-200	$525
P200MMX	$565	K6-233	$585
P233MMX	$655		

Cyrix

M2-P166+	$685
M2-P200+	$725
M2-P233+	$860

Please Call For Other Configurations

"HOME" MULTIMEDIA INTERNET SYSTEM

- Intel Triton TX Chiset MB w/512K PLBC
- PCI EIDE Support U-DMA w/IO (16550)
- Mini Tower Case w/ 230 Watt PS
- 32MB 72-Pin EDO Ram • CPU Fan
- Seagate 2.1GB Utra-DMA IDE HD
- Trident 9685 Chip, TVOUT, PCI w/ 2M
- Taicom 33.6k w/Voice • Sony 1.44 FD
- 3 Button Mouse • Mitsumi Win95 KB
- 16 Bit Sound Card & Speakers
- Sony 24X CD-Rom • MS Win95 CD

intel.		AMD	
P-150	$695	K5-133	$650
P-166	$690	K5-166	$675
P-200	$725	K6-166	$695
P-166MMX	$695	K6-200	$755
P-200MMX	$795	K6-233	$825
P-233MMX	$875		

Cyrix

M2-P166+	$655
M2-P200+	$680
M2-P233+	$840

"PRO" MULTIMEDIA INTERNET SYSTEM

- Asus TXP4 MB w/512K PLBC
- PCI EIDE Utra-DMA w/IO (16550)
- Mini Tower Case w/ 230 Watt PS
- 32MB 72-Pin EDO • CPU Fan
- Fujitsu 2.6GB Utra-DMA EIDE HD
- S3 Virge 3D 64-bit w/ 4MB Dram
- Rockwell 56KFLEX F/M w/ Voice
- Microsoft Mouse • Mitsumi Win95 KB
- Sound Blaster 16 • 1.44MB FD
- Sony 24X CD-Rom • 80W Amp Spk
- Microsoft Win95 CD

AMD K6 MMX ENHANCED PROCESSOR

K6-166	$850
K6-200	$895
K6-233	$975

intel.

P166MMX	$855
P200MMX	$940
P233MMX	$1030

Also Available in ATX Form

PRO 2000 SERIES

- Intel ATLANTA 440LX, AGP MB
- ATX Med. Tower Case w/ 235W PS
- 32MB (4X64) SDRAM • CPU Fan
- Fujitsu 4.3GB U-DMA IDE HD
- Diamond Viper V330 128 w/4M, AGP
- Rockwell 56KFLEX Int. F/M w/ Voice
- MS PS2 Mouse • Keytronic PS2 KB
- Toshiba 24X CD-Rom • 1.44MB FD
- Yamaha OPL3-SA Sound Card
- 300W Amp Spk • MS Win95 CD

Pentium® II 233	$1395
Pentium® II 266	$1555
Pentium® II 300	$1770

LMC PROSERVER

- Intel Providence Dual Pentium Pro MB
- ATX Full Tower Case w/ 300w PS
- 32 MB (4X64) SDRAM • CPU Fan
- Adaptec 2940 Ultra Wide SCSI Cont.
- IBM 4.3GB Utra Wide SCSI HD
- Sony 24X CD-Rom • Sony 1.44 FD
- Diamond Steath 3D 2000 w/ 2MB
- Opti 16 bit Sound Card • Amp Spk
- MS PS2 Mouse • Keytronic PS2 KB
- Intel Etherexpress Pro Network Card

Pentium® Pro200	$1350
Pentium® Pro200 (Dual)	$1845

WinNT 4.0 WorkStation Add.....$145
WinNT 4.0 5 Client Server Add.....$445

ALL COMPLETE SYSTEMS CARRY 1-YEAR PART & LIFETIME LABOR WARRANT

MOTHERBOARDS

- VXPro, 512K, U-DMA, MMX.....$62
- Intel VX, 512K, MMX.....$69
- intel TX, 512K, U-DMA, MMX.....$82

ASUS

- SP97-V, 512K w/64-Bit SVGA.....$85
- TXP4, U-DMA, 512K.....$115
- TXP4-X, U-DMA, 512K (ATX).....$125
- TX97E, U-DMA, 512K.....$145
- P-II LX97 440LX AGP.....$185
- PPro XP6NP5 (ATX).....$215

TYAN

- Tomcat VI 430HX/Dual.....$145/185
- Titan Turbo II 430TX, AT.....$125
- Titan Turbo II 430TX, ATX.....$129
- Pentium® II 440FX, ATX.....$219
- Pentium® II 440FX, ATX (Dual).....$315

intel.

- Lonetree, 430HX, 512K, ATX.....$169
- Anchorage, 430TX, 512K, ATX.....$175
- Portland P-II, 440FX, ATX.....$185
- Atlanta P-II, 440LX, ATX.....$178
- Atlanta P-II, 440LX w/Sound.....$195
- Dakota Dual P-II, 440LX.....$690

FAX & MODEMS

- Taicom 33.6 w/ Voice.....$45
- Taicom 56K w/ Voice.....$75
- Supra Express 33.6 w/Voice.....$55
- Supra Express 56K w/ Voice.....$85
- Rockwell K56FLEX w/ Voice.....$75

US Robotics

- USR 33.6 w/ Voice.....$85
- USR 56K w/o Voice.....$125
- USR 56K w/ Voice.....$135

CONTROLLERS

Adaptec

- 1522 SCSI-2 (ISA).....$75
- 2940AU SCSI-2.....$165
- 2940 Ultra SCSI.....$168
- 2940 Ultra Wide SCSI.....$188
- 3940 Ultra SCSI.....$305
- 3940 Utra Wide SCSI.....$335

CPUs

- Pentium® 133/150.....Call/$100
- Pentium® 166/200.....$125/195
- Pentium® 166/200MMX.....$125/208
- Pentium® 233MMX.....$295
- Pentium® II 233/266.....$395/515
- Pentium® II 300.....$725
- Pentium® Pro 180/200.....Call/$480
- AMD K5-133/166.....$80/90
- AMD K6-166/200/233...$125/165/285
- Cyrix M2-P166+/P200+.....$85/110
- Cyrix M2-P233+.....$250

MEMORY

- 8MB (2X32) EDO.....$17
- 16MB (4X32) EDO.....$29
- 32MB (8X32) EDO.....$65
- 64MB (16X32) EDO.....$215
- 128MB (32X32) EDO.....$465
- 16MB (2X64) SDRAM.....$45
- 32MB (4X64) SDRAM.....$75
- 64MB (8X64) SDRAM.....$230
- 128MB (16X64) SDRAM.....$495

MONITORS

- Impression 14" .28.....$145
- Impression 15" .28.....$195
- Impression 17" .27.....$395
- Impression 17" .26.....$495
- Impression 17" .25.....$525

ViewSonic

- E641 14" .28.....$179
- E655 15" .28.....$259
- PT770 17" .25.....$595
- G800 20" .28.....$935
- P810 21" .25.....$1175

MAG INNOVISION

- DX15T 15" 1280 x 1024 .25.....$310
- DJ707 17" 1280 x 1024 .26.....$525
- DJ702E 17" 1280 x 1024 .25.....$565

SONY

- 100ES 15" .25.....$325
- 200ES 17" .25.....$575
- 200SF 17" .25.....$645
- 300SFT 20" .30.....$1395

NEC

- A500 15" .25.....$350
- A700 17" .25.....$595
- E1100 21" .28.....$1345

HARD DRIVES

- JTS CHAMP 1.3GB EIDE.....$99
- JTS CHAMP 2.0GB EIDE.....$135
- JTS CHAMP 2.5GB EIDE.....$145
- SAMSUNG 1.2GB EIDE.....$105
- SAMSUNG 2.1GB U-DMA.....$145
- NEC 1.6GB EIDE.....$120
- NEC 2.5GB U-DMA.....$150
- IBM 4.3GB U-DMA.....$210
- IBM 4.3GB UW SCSI.....$310

Quantum

- 2.5GB U-DMA IDE.....$165
- 3.2GB U-DMA IDE.....$175
- 4.3GB U-DMA IDE.....$215
- 6.4GB U-DMA IDE.....$295
- 3.2GB Utra SCSI.....$255
- 4.3GB Utra SCSI.....$310
- VIKING 4.5GB UW-SCSI.....$525
- ATLAS II 9.1GB U-SCSI.....$775

Seagate

- 1.6GB EIDE.....$130
- 2.1GB U-DMA IDE.....$139
- 4.5 UW SCSI.....$525
- 9GB Utra SCSI.....$825

FUJITSU

- 1.7GB U-DMA IDE.....$125
- 2.6GB U-DMA IDE.....$155
- 3.5GB U-DMA IDE.....$185
- 4.3GB U-DMA IDE.....$235
- 5.2GB U-DMA IDE.....$290
- 4.4GB U-SCSI.....$535
- 4.4GB UW-SCSI.....$550

Western Digital

- 1.6GB EIDE.....$145
- 2.1GB Utra-DMA IDE.....$150
- 2.5GB Utra-DMA IDE.....$160
- 3.2GB Utra-DMA IDE.....$175
- 6.4GB Utra-DMA IDE.....$275
- 2.1GB UW SCSI.....$245
- 4.3GB UW SCSI.....$495

Maxtor

- 2.1GB Utra-DMA IDE.....$140
- 3.2GB Utra-Dma IDE.....$175
- 4.3GB Utra-DMA IDE.....$215
- 5.2GB Utra-DMA IDE.....$255
- 6.4GB Utra-DMA IDE.....$275
- 7GB Utra-DMA IDE.....$315
- 8.4GB Utra-DMA IDE.....$345

PCI / AGP VIDEO CARDS

- Trident 9680 1M/2M.....$24/33
- Trident 9685 w/TV 1M/2M.....$29/38
- S3 Virge 3D 2M/4M.....$45/60

DIAMOND MULTIMEDIA

- Steath 2000 Pro 4M Dram.....$75
- Steath 3000 2M/4M Vram.....$95/135
- Stealth II 4MB OEM/Retail.....$97/108
- Viper V330 Riva PCI/AGP.....$155/160
- Fire GL Pro 1000 8M AGP.....$205
- Monter 3D w/4M Retail.....$172

ATI

- ATI Pro Turbo w/TV 4/8M.....$115/155
- ATI 3D Xpression+ 2M/4M.....$59/75
- ATI 3D Xpression+ w/TV 2M/4M.....$70/95
- ATI Xpert@Work 4/8M.....$140/185
- ATI Xpert@Work AGP 4/8M...$150/205
- ATI Xpert@Play 4/8M.....$155/210
- ATI Xpert@Play AGP 4/8M.....$165/215
- ATI All in Wonder 4MB OEM/Retail.....$187/227

matrox

- Mystique II w/4M OEM.....$105
- Mystique II w/4M Retail.....$115
- Millennium II 4M WRAM OEM.....$165
- Millennium II 4M WRAM Retail.....$180
- Millennium II AGP OEM w/ 4M/8M.....$185/275

BACKUP UNITS

- CONNER 3.2GB TB.....$165
- CONNER 4GB TB SCSI.....$345
- Colorado T-1000 800MB.....$85
- Colorado T-3000 3.2GB.....$155
- Colorado T-4000 8GB.....$335

iomega

- 800MB Ditto Drive Int./Ext.....$99/130
- 3.2GB Ditto Drive Int.....$179
- 100MB Zip Drive Int./Ext.....$99/135
- 100MB Zip Drive Ext. SCSI.....$140
- 1GB Jaz Drive Int. SCSI.....$275
- 1GB Jaz Drive Ext. SCSI.....$375

CD-ROM DRIVES

- Teac 524 24X IDE.....$72
- Panasonic 585 24X IDE.....$72
- Acer 20/24X IDE.....$68/75
- Goldstar 24X IDE.....$72
- SAMSUNG 24X IDE.....$72
- IMES 24X IDE.....$72
- NEC 24X SCSI.....$130

TOSHIBA

- XM-6102 24X IDE.....$75
- XM-5701 12X SCSI.....$95
- Toshiba DVD Kit.....$325

SONY

- CDU611 24X CD-Rom.....$80
- CDU928E 2X8 CD-Writer IDE.....$270
- CDU926S 2X6 CD-Writer SCSI...$270

SOUND CARDS

- Opti 16 Bit.....$15
- ESS 16 Bit.....$15
- Yamaha 16 Bit.....$15

CREATIVE

- Sound Blaster 16.....$39
- Sound Blaster 32.....$69
- Sound Blaster AWE 64.....$79
- Sound Blaster AWE 64 Gold.....$155

NETWORKS

- 16 BIT ISA Ethernet Combo.....$15
- 32 BIT PCI Ethernet Combo.....$19
- 32 BIT PCI 10/100 TP.....$50
- Intel Express Pro-100, 10/100.....$55
- 9/18/24 Port HUB.....$50/90/215

3Com

- 3C509 TP/Combo.....$45/65
- 3C900 PCI TP/Combo.....$70/80
- 3C905 PCI 10/100 TP.....$60
- 3Com Office HUB 16 Port.....$225

MICE & KEYBOARDS

- 3 Button Mouse Serial/PS-2.....$5/8
- Logitech Mouseman (OEM) Serial /PS-2.....$18/22
- Microsoft 2 Button Mouse w/ System
- Mitsumi 104 Keyboard.....$12
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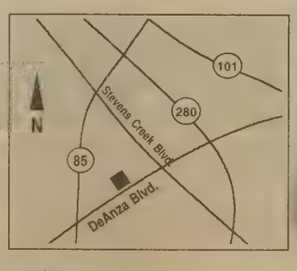

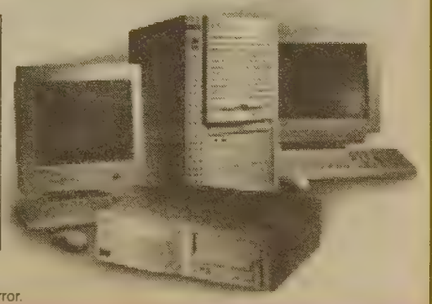

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REALIZABLE FANTASIES • BY JIM WARREN

The Evil Of Software Monopolies, Uh, Patents—Part 2

The Second Installment Of Jim Warren's Statement To The PTO

My previous column (Issue #171) contained the first part of the formal testimony that I presented to the Patent and Trademark Office's hearings on "Software Related Inventions," held in San Jose, California, in March, 1994. Part 1 contained the "Principles" that I presented; this part presents the "Pragmatics;" next month's concluding column will contain a series of specific recommendations—all presented as the official position of Autodesk, Inc., which at the time, was the sixth-largest microcomputer software publisher in the world.

Pragmatics Opposing Software Patents

There is absolutely no evidence, whatsoever—not a single iota—that software patents have promoted or will promote progress.

For the first forty years of the computer industry, and most of the twenty years of the microcomputer industry, there were almost no claims of monopoly over intellectual processes. Nonetheless, investors invested and profited; companies grew wealthy; employment expanded; salaries were and are high; un-patented innovation was amply rewarded; and explosive progress was promoted—as the Constitution intended.

The constitutional rationale and basis for intellectual property protection states, "*To promote the progress of science and useful arts*, by securing for limited times to authors and inventors the exclusive right to their respective writings and discoveries." (Sec. 8, Par. 8, italics added).

Can you imagine how computing would have developed if everything from b-trees to Shell-sort to n-way tape-merge to block-structured programming to object-oriented design were each monopolized for seventeen years, like xerography? Where would Microsoft be if Gary Kildall had patented CP/M, of which MS-DOS was a look-alike? Or if Digital Equipment Corp. had patented the TOPS-10 CCL interface, from which Kildall derived the CP/M command interface?

ASK EACH MAJOR SOFTWARE PUBLISHER IN YOUR HEARINGS TO DISCLOSE THE MONEY AND TALENT THEY ARE WASTING ON SOFTWARE PATENTS AND DEFENSES, INSTEAD OF INVESTING IT IN PROGRESS AND INNOVATION. I WOULD GUESS THAT, ACROSS THE SOFTWARE INDUSTRY, SUCH CLAIMS MAY CONSUME AS MUCH AS A BILLION DOLLARS.

Where would Windows be if graphical user interfaces had been patented by Apple? For that matter, where would Apple be if the Xerox Palo Alto Research Center had locked up GUI techniques for seventeen years?

Neither the innovators, nor the investors, nor the consumers would have benefited, and national progress would have been greatly suppressed.

Of the thousands of programmers I have known in the last quarter-century, I have never heard a single one say they *didn't* develop a program because they couldn't monopolize it.

Of the thousands of programs I have known about, as a multi-decade industry observer, I don't know of a single one that was innovative enough to promote progress—much less perhaps-qualify for a patent as a "useful art"—that couldn't find funding.

This is at least partially due to the fact that—unlike patentable devices—software can be created with relatively little investment, and quickly duplicated and distributed at even less cost. And almost every major software publisher today—including Autodesk—is proof of it.

The system was not broken when there were no software patents.

Patent Enforcement: A Lawyer's Dream

Now however, there is growing evidence that software patents have begun to harm and deter progress in what your hearing notice stated was "the fastest growing industry in the United States ... [that] employs about 4 percent of the American work force ... [with employment growing] at an annual rate of 6.6 percent."

Wealthy corporations are beginning to use their software patents to attack weaker opponents. But small, under-funded innovators have little more than the false delusion of protection when they receive a patent. (Software patents do, however, provide endless employment for intellectual-property litigators.)

Here are examples illustrating that the waste of resources and danger to innovation are increasing:

- Microsoft reportedly paid $25 million to

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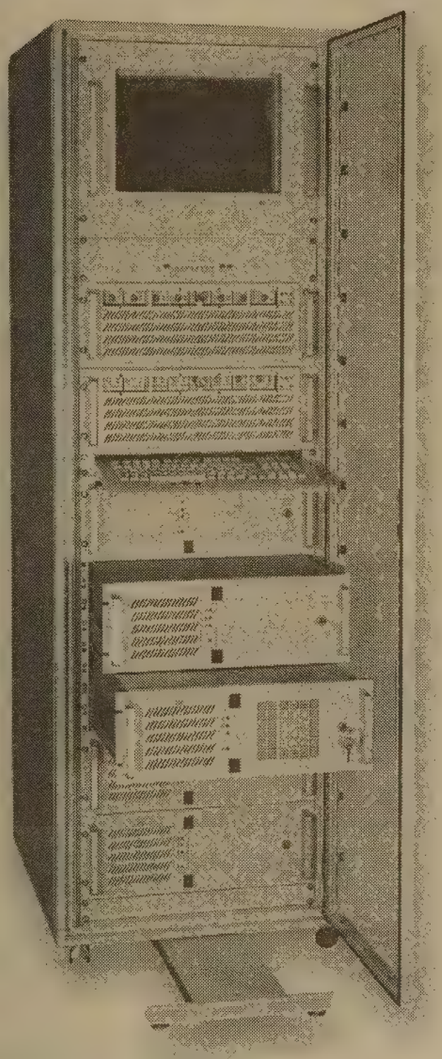

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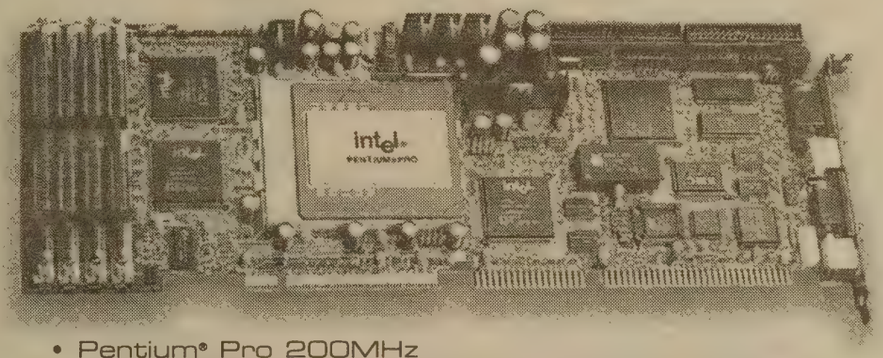

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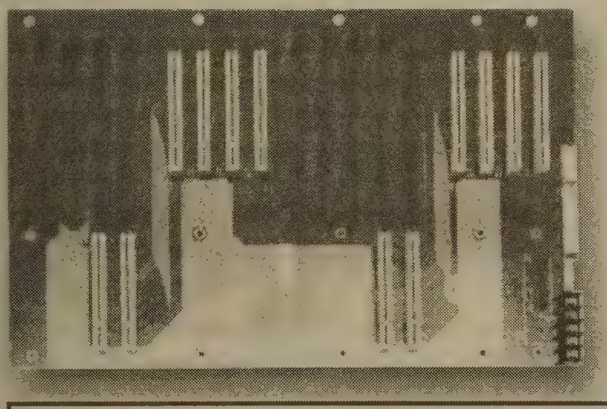

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Realizable Fantasies *continued...*

IBM in 1992 to license IBM's portfolio of about 1,000 software patents—not for use, but simply for self-defense. That's $25 million that Microsoft did not spend to reward innovation and promote progress.

• Lotus inappropriately used copyright protection—intended for artistic and non-utilitarian works—to monopolize displays and keystrokes that were useful and should never have been protected under copyright in the first place. But they were also obvious and were hardly novel by any stretch of the imagination—thus, should not have been protected at all, certainly not by patent.

It appears to most of us that Lotus won only because they could outspend their opponents—under-funded Paperback Software. Now, we have dangerous case-law precedent and have destroyed what was otherwise a viable, cost-competitive, job-producing, tax-paying, innovative software publisher. Innovation was not rewarded, and progress was not promoted.

Fortunately for Lotus, VisiCorp had not copyrighted, much less patented, the displays or intellectual processes that they chose to mimic by machine, a decade earlier.

• Paul Heckel of HyperRacks, who spoke earlier (strongly supporting software patents), was once an innovative programmer—who foolishly thought a software patent would protect his innovation. But he is neither an attorney nor wealthy. So he has wasted most of his last decade in bitter, consumptive attempts to protect his patent, but has reaped little reward. His patent left him no time to use his technical talents for personal benefit nor to promote progress.

• The company for which I am speaking, Autodesk, holds some number of software patents and has applied for others—which, of course, remain secret under current US law. However, all are defensive—an infuriating waste of our technical talent and financial resources, made necessary only by the lawyer's invention of software patents.

Autodesk has faced at least seventeen baseless patent claims made against it and has spent over a million dollars defending itself, with millions more certain to pour down the bottomless patent pit unless we halt this debacle. Fortunately—unlike smaller software producers—we have the financial and technical resources to rebuff such claims. We rebutted all but one of the claims, even before the patent-holders could file frivolous lawsuits, and will litigate the remaining claim to conclusion. Note that your Patent Office has issued at least sixteen patents that we have successfully rebutted, and we never paid a penny in these attempted extortions that your Office assisted.

But it was an enormous waste of resources that could have better been invested in useful innovation. These unending baseless claims benefit patent lawyers, but they certainly do not promote progress.

Ask each major software publisher in your hearings to disclose the money and talent they are wasting on software patents and defenses,

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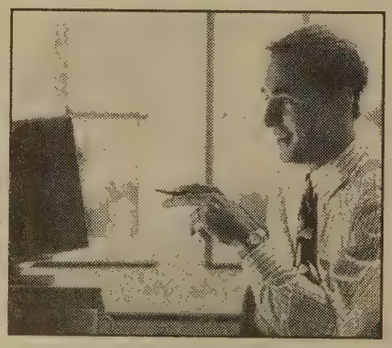

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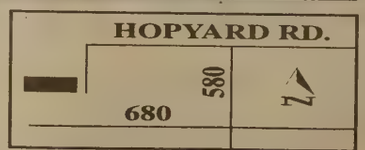

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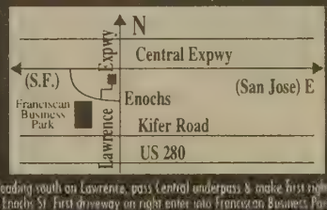

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Realizable Fantasies *continued...*

instead of investing it in progress and innovation. I would guess that, across the software industry, such claims may consume as much as a billion dollars. Much worse, they are consuming more and more time of the programming talent in each company, for programmers are the only ones technically competent to assist attorneys in preparing one defense after another after another. Still other programmers remain unproductive in one deposition after another after another, and one court hearing after another after another.

This does not reward innovation nor "promote progress."

Patents As Impediments To Progress

Furthermore, software patents can provably fail to reward innovation and at the same time deter progress.

As an example: There is an arithmetic coding compression algorithm that is an option to the JPEG standard. But such arithmetic coding algorithms are patented by IBM—and possibly subject to patents held by Mitsubishi and others. As a direct consequence, almost no JPEG implementations support this option—they only implement Huffman coding, which is less efficient but not subject to monopoly.

Thus IBM receives no revenues; users must settle for a less powerful tool; and IBM cannot even use the technology to its own advantage because its products would then be incompatible with those of other vendors.

Additionally, patents impede progress and harm the market by forcing incompatibility—designed exclusively to avoid infringing a patent. Innovation is diverted from genuine progress into finding a path to circumvent the visible alligators in the patent swamp, with other alligators invisible, hidden beneath this nation's disclosure delay. Products are not interoperable, and standards are thwarted because components in them are patented.

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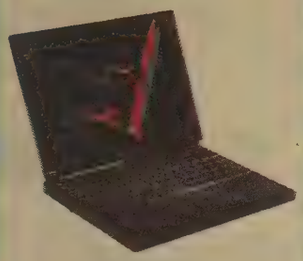

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- Pentium™ 233 MMX Processor
- 512K Level - 2 Cache
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- Optional Desk Station & DVD-Rom

Model	Processor	Ram	HD	Screen	Price
50CT	Pentium™/75	16MB	772MB	6.1" Active Clr.	$1898.
220CDS	Pentium™/133	16MB	1.34GB+10X	12.1" Dual Scan	$1748.
400CDS	Pentium™/75	8MB	500MB+4X	10.4" Dual Scan	$1098.
430CDT	Pentium™/120	16MB	1.2GB+10X	11.3" Active Clr.	$1998.
440CDX	P133-MMX	16MB	1.34GB+10X	12.1" Fast Scan	$2898.
440CDT	P133-MMX	16MB	1.34GB+10X	12.1" Active Clr.	$2658.
460CDT	P166-MMX	32MB	2.02GB+10X	12.1" Active Clr.	$3598.
3600CT*	486 DX2-50	8MB	250MB	8.4" Active Clr.	$998.
3600CT*	486 DX2-50	8MB	500MB	8.4" Active Clr.	$998.
650CT	Pentium™/133	16MB	1.2GB	11.3" Active Clr.	$2998.
660CDT	Pentium™/150	16MB	1.35GB+10X	11.3" Active Clr.	$3198.
300CT	P133-MMX	32MB	1.51GB	10.4" Active Clr.	$3348.
510CDT	Pentium™/133	16MB	2.1GB+10X	12.1" Active Clr.	$2648.
520CDT	P166-MMX	32MB	2.02GB+10X	12.1" Active Clr.	$4178.
530CDT	P166-MMX	32MB	2.02GB+10X	12.1" Active Clr.	$4348.
730XCDT	P150-MMX	16MB	2.1GB+6X	13.3" Active Clr.	$3498.
740CDT	P166-MMX	16MB	3.0GB+10X	13.3" Active Clr.	$4898.
740CDT-NT	P166-MMX	16MB	3.0GB+10X	13.3" Active Clr.	$5398.
740CDT	P166-MMX	16MB	2.1GB+10X	13.3" Active Clr.	$4698.
750CDT	P233-MMX	32MB	4.77MB+20X	13.3" Active Clr.	$6446.

*SubNotebook

Model	Processor	Ram	HD	Screen	Price
4140X	Pentium™/133MMX	16MB	1.4GB+20X	12.1" Dual Scan	$1698.
7340	Pentium™/133MMX	32MB	1.4GB+10X	12.1" Active Clr.	$2088.
7360	Pentium™/166MMX	32MB	2.2GB+10X	12.1" Active Clr.	$3098.
7560	Pentium™/166MMX	32MB	3.2GB+10X	13.3" Active Clr.	$4128.
7580	Pentium™/233	32MB	3.2GB+20X	13.3" Active Clr.	$5148.

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Model	Processor	Ram	HD	Screen	Price
1550DMT	Pent-™/133	16MB	1.4GB+10X	12.1" Active Clr	$2378.
1530DM	Pent-™/133	16MB	1.4GB+10X	12.1" Dual Scan	$1868.
4131T	Pent-™/133	16MB	1.4GB	12.1" Active Clr	$1898.
4150	Pent-™/150MMX	16MB	1.6GB	12.1" Dual Scan	$2088.
4160T	Pent-™/166MMX	16MB	2.0GB	12.1" Dual Scan	$3178.
4160TSL	Pent-™/166MMX	16MB	2.0GB	12.1" Active Clr	$3368.
7330T	Pent-™/150MMX	16MB	2.1GB	12.1" Active Clr	$3088.
7350MT	Pent-™/166MMX	32MB	2.1GB	12.1" Active Clr	$3548.
7710MT	Pent-™/150MMX	16MB	1.6GB	12.1" Active Clr	$2618.
7730MT	Pent-™/166MMX	32MB	2.1GB	12.1" Active Clr	$4108.
7750MT	Pent-™/166MMX	32MB	3.0GB	12.1" Active Clr	$4671.
LTE5400	Pent-™/150	32MB	2.16GB	12.1" Active Clr	$3048.

COMPAQ DeskPro Desktops

Model	Processor	Ram	HD	OS	Price
DP-2000	Pent-™/166MMX	16MB	2.1GB	Windows 95	$998.
DP-2000	Pent-™/166MMX	16MB	3.2GB	Windows 95	$1058.
DP-2000	Pent-™/200MMX	16MB	2.1GB	Windows 95	$1118.
DP-2000	Pent-™/200MMX	32MB	3.2GB	Windows 95	$1268.
DP-2000	Pent-™/233MMX	32MB	3.2GB+16X	Windows 95	$1628.
DP-2000	PPro-200	16MB	2.5GB+8X	Windows NT 4.0	$1898.
DP-2000	Pent-™/166MMX	32MB	3.2GB+16X	Windows 95	$1358.
DP-2000	Pent-™/200MMX	32MB	3.2GB+16X	Windows 95	$1468.
DP-2000	PPro-200	32MB	2.5GB+8X	Windows NT 4.0	$1998.

Model	Processor	Ram	HD	Oper.Sys.	Price
VL5	MMX/166	16MB	1.6GB	W-95 / WFW	$963.
VL5	MMX/166	16MB	1.6GB	W-95 / WFW	$1147.
VL5	MMX/166	16MB	2.5GB+24X	W-95 / WFW	$990.
VL5	MMX/166	32MB	2.5GB	W-NT 4.0	$1165.
VL5	MMX/200	16MB	2.5GB	W-95 / WFW	$1069.
VL5	MMX/200	32MB	2.5GB	W-95 / WFW	$1244.
VL5	MMX/233	32MB	2.5GB	W-95 / WFW	$1385.
VL5	MMX/200	32MB	2.5GB+24X	W-95 / WFW	$1297.
VL5	MMX/233	32MB	2.5GB	W-95 / WFW	$1297.
VL6	Pent-II/233	32MB	2.5GB	W-NT 4.0	$1604.
VL6	Pent-II/233	32MB	2.5GB	W-95	$1498.
VL6	Pent-II/266	32MB	2.5GB	W-NT 4.0	$1858.
VL6	Pent-II/266	32MB	2.5GB	W-95	$1753.
VL6	Pent-II/266	32MB	2.5GB	W-NT 4.0	$1945.
VL6	Pent-II/266	32MB	4.0GB+24X	W-NT 4.0	$2252.
VL6	Pent-II/300	32MB	4.0GB	W-NT 4.0	$2244.

HEWLETT PACKARD

DESKTOPS

- Pentium II - 300
- 24X CD-ROM
- 4.0GB Hard Drive

FUJITSU

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LIFEBOOK 435DX

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Above price good w/ purchase of 10X Fujitsu CD & Application Bundle for $398.00. Application Bundle includes Win-95, MS Works, LapLink, QuickenSE, First Aid 97,SoftPEG,Internet Explorer, WebEx

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IBM*	$378.	$548.	$848.

*Most Models

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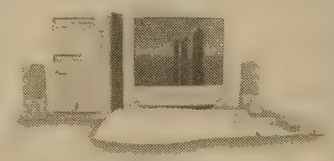


• Equipment is just representative of items sold.

Victoria WHITE - LX

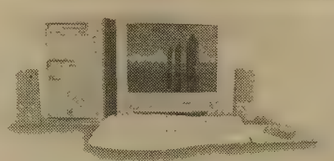
Windows NT Server

- Asus P2L97-S ATX MB w/AGP Set
- Intel LX Chipset
- Intel Pentium® II Processor w/512K Integrated L2 Cache
- 64MB SDRAM Exp. to 384MB
- Mid Tower ATX Case w/235w PS
- 1.44MB Floppy Disk Drive
- Built-In Adaptec 7880 Ultra SCSI Controller
- Seagate ST 17101N Cheetah 9.1GB Ultra SCSI HDD
- HP C1528H 8GB DAT SCSI Int Tape Drive
- S3 PCI SVGA w/2MB DRAM
- Toshiba 12X SCSI CD ROM Drive
- Victoria 3-Button Serial Mouse & Pad
- 104-Key PS/2 Keyboard
- MS Windows NT Server 4.0 (5 Licenses)
- 3Com 3C905 10/100 BT PCI Ethernet Card

(Monitor & Speakers not included)

Network Power House

300MHz..... $4039
266MHz..... $3819
233MHz..... $3689



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Victoria PLATINUM II - LX

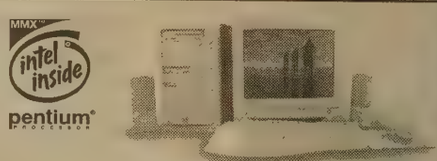
with MMX™ Technology

- Intel Atlanta AL440LX ATX MB
- Intel LX Chipset /AGP set
- Intel Pentium® II Processer w/512K Integrated L2 Cache
- 64MB SDRAM Exp. to 384MB
- Mid Tower ATX Case w/235w PS
- 1.44 Floppy Disk Drive
- Western Digital 6.4GB Ultra DMA EIDE HDD
- Asus AGP V3000 SVGA w/4MB
- US Robotics Sportster X2 56K Voice/Fax/Modem
- TEAC 32X EIDE CD ROM
- Built-In Yamaha YMF715 16-Bit Audio
- Yamaha YST - M15 Stereo Speakers
- Victoria 3-Button Serial Mouse & Pad
- 104-Key PS/2 Enhanced Keyboard
- MS Windows 95
- NETCOM's NET Complete CD Internet Software Bundle

(Monitor not included)

Lowest Price in Town

300MHz..... $2099
266MHz..... $1879
233MHz..... $1759



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Victoria PLATINUM - TX

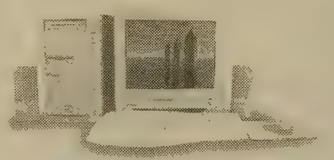
with MMX™ Technology

- Intel Anchorage AN430TX ATX MB
- Intel TX Chipset/512K Pipeline Cache
- Intel Pentium® Processor with MMX™ Technology
- 32MB SDRAM Exp. to 256MB
- Mid Tower ATX Case w/235w PS
- 1.44 Floppy Disk Drive
- Western Digital 4.3GB Ultra DMA EIDE HDD
- Diamond Stealth 64 w/2MB VRAM
- US Robotics Sportster X2 56K Voice/Fax/Modem
- Toshiba 24X EIDE CD ROM
- Built-In Yamaha YMF715 16-Bit Audio
- Yamaha YST - M15 Stereo Speakers
- Victoria 3-Button Serial Mouse & Pad
- 104-Key PS/2 Enhanced Keyboard
- MS Windows 95
- NETCOM's NET Complete CD Internet Software Bundle

(Monitor not included)

"Corporate Workhorse"

MMX 233MHz..... $1339
MMX 200MHz..... $1249
MMX 166MHz..... $1159



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Victoria MAGENTA - TX

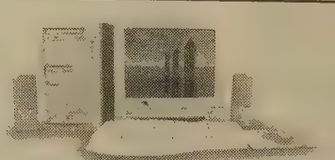
Windows Network Station

- Asus TXP4 AT MB
- Intel TX Chipset/512K Pipeline Cache
- Intel Pentium® Processor & CPU Fan
- 16MB EDO RAM Exp. to 256MB
- Mid Tower Case w/230w PS
- 1.44MB Floppy Disk Drive
- Western Digital 2.1GB EIDE Hard Disk
- S3 PCI SVGA Card w/1MB DRAM
- Mitsumi 16X EIDE CD-ROM INT
- Victoria 3-Button Serial Mouse & Pad
- 104-Key PS/2 Keyboard
- MS Windows 95
- Danpex NE2000 Ethernet Card

(Monitor & Speakers not included)

Network Economy

MMX 166MHz..... $719



• Equipment is just representative of items sold.

Victoria GREEN - TX

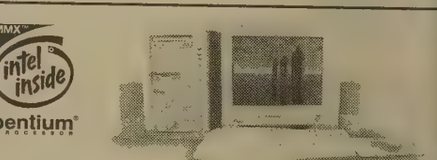
With MMX™ Technology

- Asus TXP4-X ATX MB
- Intel TX Chipset/512K Pipeline Cache
- Intel Pentium® Processor with MMX Technology
- 16MB EDO RAM Exp. to 256MB
- Mid-Tower ATX Case w/235w PS
- 1.44MB Floppy Disk Drive
- Western Digital 2.1GB EIDE Hard Disk
- Diamond Stealth 64 w/2MB DRAM
- US Robotics Sportster 56K X2 Fax/Modem
- Mitsumi 16X EIDE CD-ROM INT
- Sound Blaster 16 PnP
- SP-935B 80w Stereo Speakers
- Victoria 3-Button Serial Mouse & Pad
- 104-Key PS/2 Enhanced Keyboard
- MS Windows 95
- NETCOM'S NET Complete CD Internet Software Bundle

(Monitor not included)

Great "Starter" System

MMX 166MHz..... $929



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Victoria RED - TX

with MMX™ Technology

- Asus TXP4-X ATX MB
- Intel TX Chipset/512K Pipeline Cache
- Intel Pentium® Processor with MMX™ Technology
- 32MB EDO RAM Exp. to 256MB
- Mid Tower ATX Case w/235w PS
- 1.44MB Floppy Disk Drive
- Western Digital 3.1GB EIDE Hard Disk
- Diamond Stealth 64 w/2MB DRAM
- US Robotics Sportster 56K X2 Fax/Modem
- Toshiba 24X EIDE CD ROM
- Sound Blaster 16 PnP
- Yamaha YST - M7 Stereo Speakers
- Victoria 3-Button Serial Mouse & Pad
- 104-Key PS/2 Keyboard
- MS Windows 95
- NETCOM's NET Complete CD Internet Software Bundle

(Monitor not included)

Internet and Multimedia Value

MMX 233MHz..... $1189
MMX 200MHz..... $1099

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- 10X CD-ROM
- 12.1" Active Matrix Color (TFT)

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Tecra 520CDT w/MMX
- 166 MHz Pentium® Processor
- 32MB EDO RAM (Exp. to 160MB)
- 2.1GB HDD/1.44MB FDD
- 10X CD-ROM
- 33.6 Voice/Fax/Modem
- 12.1" Active Matrix Color (TFT)
- 16 Bit Sound/Speakers

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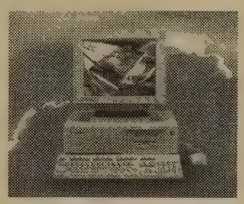

Armada 1550 DMT/133
- 133 MHz Pentium® Processor
- 16MB RAM (Exp. to 80MB)
- 1.44GB HDD/1.44MB FDD
- 33.6 Voice/Data/Fax
- 10X CD-ROM
- 12.1" Active Metrix Color(TFT)

☞ Model 255150-005

$2139

Armada 7730MT/166 with MMX
- 166 MHz Pentium® Processor
- 32MB RAM (Exp. to 144MB)
- 2.1GB Smart HDD/1.44MB FDD
- 33.6 Telephone Modem/Fax
- 12.1 Active Matrix Color (TFT)

☞ Model 277706-003

$3349

Deskpro 2000 5166X/2100/Desktop
- 166 MHz Pentium® Processor
- With MMX Technology
- 16MB RAM Exp. to 384 MB
- 2.1GB HDD/1.44MB FDD
- 1MB SVGA Video
- Compaq Keyboard & Mouse
- Desktop Case
- MS Windows 95

☞ Model# 278700-002
(Monitor not included)

$979

Deskpro 6000 6300X/4300/MT
- 300 MHz Pentium II ® Processor with MMX Technology
- 64MB RAM (Exp. to 384MB)
- Adaptec Ultra SCSI Controller
- 4.3GB SCSI HDD/1.44MB FDD
- 4MB Matrox Millenium II SVGA Video
- 24X CD ROM
- Integrated 16-Bit Stereo Audio
- Integrated 10/100BTX Ethernet
- Compaq Keyboard & Mouse
- Mini-Tower Case
- Windows NT Workstation

☞ Model# 270750-004
(Monitor not included)

$3429

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Vision Master Pro-17
- 1600 x1280 (72Hz) .25
- Flat Square Aperture Grill Tube (Diamondtron)
- 16" Diagonal Viewable Area
- PC or Mac (Adaptor Included)
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- 166 MHz Pentium® Processor with MMX Technology
- 8.2MB RAM (Exp. to 128MB)
- 2.5GB HDD/1.44MB FDD
- 1 MB PCI SVGA Video
- IBM Keyboard & Mouse
- Desktop Case
- MS Windows 95

☞ Model 6282-73U

$1099

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Power Mac G3/233/DT
- 233MHz PowerPC G3 Processor
- 32MB RAM (Exp. to 192MB)
- 4.0GB SCSI HDD / 1.44MB FDD
- 2MB ATI 3D Rage II SVGA Video
- 24X CD ROM
- 16-Bit Stereo Audio / 10BT Ethernet
- Apple Keyboard & Mouse
- Desktop Case / Apple OS 8

☞ Model #M6141LL/A
(Monitor not included)

$1999

Power Mac G3/266/MT
- 266MHz PowerPC G3 Processor
- 32MB RAM (Exp. to 384MB)
- 6.0GB SCSI HDD / 1.44MB FDD
- 2MB ATI 3D Rage II SVGA Video
- 24X CD ROM / 100MB SCSI ZIP Drive
- 16-Bit Stereo Audio / 10BT Ethernet
- Apple Keyboard & Mouse
- Mini Tower Case / Apple OS 8

☞ Model #M6142LL/A
(Monitor not included)

$2969

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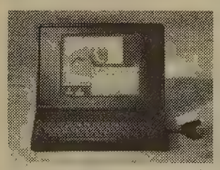


OmniBook 3000CTX/200 Model 2100 with MMX
- 200 MHz Pentium® Processor
- 16MB RAM (Exp. to 128MB)
- 2.1GB HDD/1.44MB FDD
- 13.3" Active Matrix Color (TFT)

☞ Model# F1391A

$3279

Net Vectra 5/200 Network Station
- 200MHz Pentium® Processor
- 16MB RAM (Exp. to 192MB)
- 1.0GB HDD/1.44MB FDD
- 2MB SVGA Video
- HP Keyboard & Mouse
- Desktop Case
- MS Windows NT Workstation
- Fast-Ethernet 10/100 Base TX

☞ Model# D5471N
(Monitor not included)

$1079

Brio MT 5166X Small Business System
- 166MHz Pentium® Processor With MMX Technology
- 16MB RAM (Exp. to 128MB)
- 2.1GB HDD/1.44MB FDD
- 16X CD-ROM
- 1MB PCI SVGA Video
- HP Keyboard & Mouse
- Mini-Tower Case
- MS Windows 95

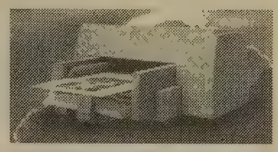
☞ Model# D5555A
(Monitor not included)

$1199

Kayak XU 6/266
- 266MHz Pentium® II Processor
- 64MB RAM (Exp. to 512MB)
- 4.5GB HDD/1.44MB FDD
- 4MB Matrox Millenium II SVGA Video
- 24X SCSI CD-ROM
- HP Keyboard & Mouse
- Mini-Tower Case
- MS Windows NT 4.0 Workstation
- Fast-Ethernet 10/100 Base TX

☞ Model# D4692N
(Monitor not included)

$3799



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Realizable Fantasies continued from page 32

It's bad enough to inflict this harm and impediment to progress on physical devices. To extend it to machine-mimicked intellectual processes is outrageous.

Patents: Enemy Of Global Competitiveness

Finally, there is the intense danger that software patents pose to our industry's global competitiveness.

We all know that Wall Street's near-term bottom-line myopia strangles US corporate long-term research-and-development investment—unlike corporations in some other nations, notably on the Pacific Rim. Thus, we are at a disadvantage in producing basic innovation that is patentable. But foreign companies can do it, and are doing it.

As an example, several Japanese companies are pursuing extensive research in fuzzy logic, and are reportedly filing for US patents on every comma and semicolon. Are they likely to license such patents to their US competitors?

IT APPEARS TO MOST OF US THAT LOTUS WON ONLY BECAUSE THEY COULD OUTSPEND THEIR OPPONENTS—UNDER-FUNDED PAPERBACK SOFTWARE. NOW, WE HAVE DANGEROUS CASE-LAW PRECEDENT AND HAVE DESTROYED WHAT WAS OTHERWISE A VIABLE, COST-COMPETITIVE, JOB-PRODUCING, TAX-PAYING, INNOVATIVE SOFTWARE PUBLISHER. INNOVATION WAS NOT REWARDED, AND PROGRESS WAS NOT PROMOTED.

We have seen what foreign investments in long-term R&D have done to our competitiveness in traditionally patentable areas such as consumer electronics, automobiles and optics. Nonetheless, few publicly traded US corporations have dared to endanger next quarter's bottom line by investing great amounts in R&D that can pay off only in the long term.

Shall we inflict this danger on our software industry?

And the debacles deriving from differing national patent policies are intolerable. For example, the patent on public-key cryptographic algorithms only restricts their use by North Americans—due to different disclosure requirements. (Strictly incidental to the patent issue, US taxpayers are the ones who paid for public-key research and development at two publish-or-perish academic universities, but are among the few people in the world who cannot freely use what they paid for.)

Next month's column will conclude this three-part series with a number of specific recommendations regarding, and opposing, "software patents," which were presented to PTO Commissioner Bruce Lehman in those March, 1994, hearings. ■

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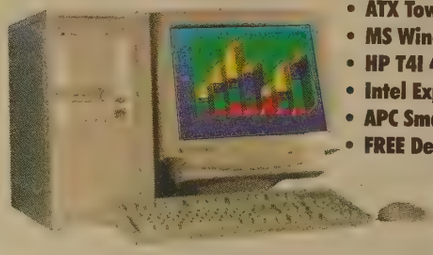

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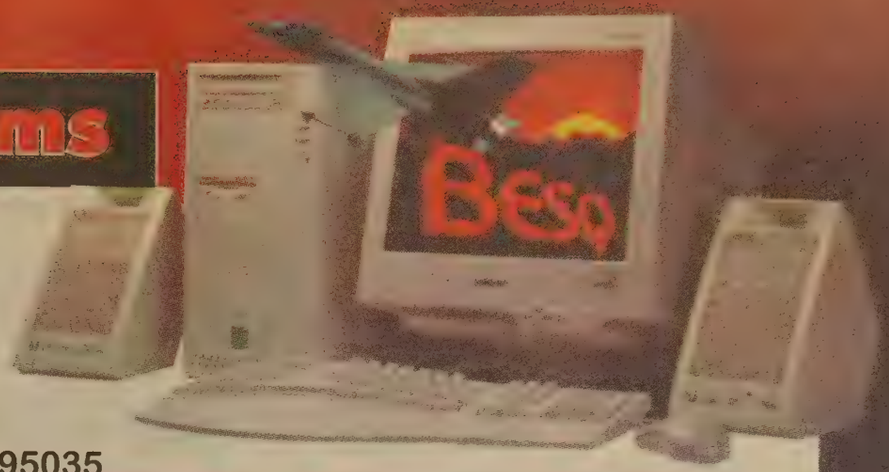

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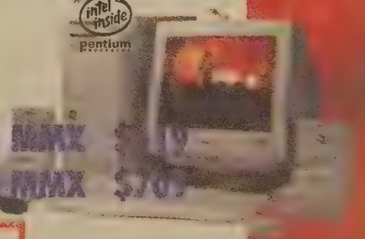

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GUEST EDITORIAL • BY DAVID KLINE

Win-Win, High-Tech, And The UPS Strike

A Wake-Up Call To Silicon Valley

If you thought 1997's UPS strike was just some old-fashioned Industrial Age conflict with little relevance to the high-tech industry, think again. The issue at the core of this strike—the rights of America's fast-growing contingent workforce—is about to strike with a vengeance at the very heart of Silicon Valley's Information Age economy.

According to the US Department of Labor, nearly one in five American workers nationwide are now classified as part-time or temporary employees. Corporate America is driving this shift to contingent employment, of course, because it results in lower labor costs, greater flexibility in responding to changes in technologies and markets, and increased competitiveness in the global economy.

Most Americans understand that there may a price to pay for making our economy more competitive. What they don't understand, though, is why workers must shoulder *all* of the burdens and receive none of the benefits of such increased competitiveness. In UPS' case, the bosses' profits kept rising, rising, rising—more than doubling, in fact, just since 1992—while the workers' real incomes, benefits and working conditions (can *you* lift 150 pounds?) kept falling, falling, falling.

It's a simple matter of fairness—and as UPS' bosses discovered to their surprise and chagrin, insulting the American people's sense of fair play is a perilous game indeed! The UPS strike, in fact, was the first large-scale labor action in a generation to win the overwhelming support of Americans, who in recent decades have become disdainful of unions and intolerant of economic disruptions of any sort.

> The relentless drive to **"ephemeral-ize"** American jobs is nowhere more pronounced than in Silicon Valley, where legions of **cyber-gypsies** roam the high-tech landscape in search of one **fleeting job** after another.

High-Tech Migrant Workers

What does all this have to do with Silicon Valley?

Simple. The relentless drive to "ephemeral-ize" American jobs is nowhere more pronounced than in Silicon Valley, where legions of cyber-gypsies roam the high-tech landscape in search of one fleeting job after another. According to a study last year by Working Partnerships USA, a non-profit institute funded by the AFL-CIO, the contingent workforce in Silicon Valley has grown 35% in recent years, to represent more than 40% of all high-tech workers.

For some workers able to navigate effectively the twists and turns of this new contingent labor market, the rewards can be greater entrepreneurial opportunity and more flexibility in managing their work and family schedules. But for the majority of both low- and high-skilled workers, the rise in contingent employment means increased economic insecurity, declining wages, little access to benefits and health care, and few, if any, of the rights and protections afforded by state and federal labor laws.

Indeed, according to the US Bureau of Labor Statistics, less than 10% of Silicon Valley temporary workers receive health insurance. As for wages, the Working Partnerships study found that the real incomes of contingent high-tech workers, adjusted for inflation, have fallen 15% since 1989.

And we're not just talking about those stereotypical lower-skilled, mostly immigrant female workers who assembled your PC, either. High-skilled technical workers, including software programmers, have seen their real wages fall an astonishing *28%* in the past seven years, according to the study.

So take it as a warning: The same explosive issue that sparked the UPS strike and galvanized the American people to their support now sits like a ticking time bomb in the heart of Silicon Valley. It may not come this year or

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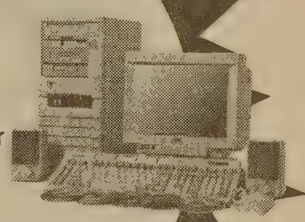

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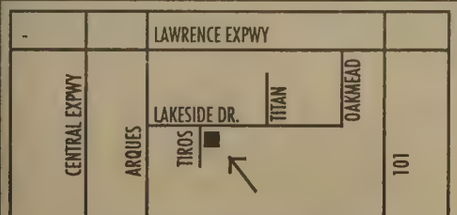

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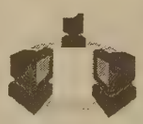

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Guest Editorial *continued...*

even next, but sooner or later high-tech workers' demands for more equitable treatment are going to burst forth and rupture the 30-year tradition of labor peace in Silicon Valley.

Indeed, the first shots in this coming labor war have already been fired—and none other than Mr. High-Tech himself, Bill Gates, ended up with a multi-million dollar wound. In July, a Federal Appeals Court in San Francisco ruled that Microsoft's practice of classifying long-time contractors as "temporary" in order to avoid paying employee benefits or stock options was illegal. As the *Wall Street Journal* noted, "The ruling could have widespread reverberations [for] high-tech companies in particular."

While most employees want their companies to succeed and are prepared to make **some sacrifices** toward that goal, they will do so only if they see that the **rising tide** of high-tech opportunity lifts *all* boats—including those of workers like themselves who **helped create** that opportunity in the first place.

Unions Gear Up

What's next?

Watch for union organizing efforts to begin making inroads in Silicon Valley. The South Bay AFL-CIO Central Labor Council recently appointed a young new organizer, Amy Dean, to head the effort. And according to her public statements, she seems to have grasped an all-important truth that many high-tech bosses, along with their brethren at UPS, have ignored:

While most employees want their companies to succeed and are prepared to make some sacrifices toward that goal, they will do so only if they see that the rising tide of high-tech opportunity lifts *all* boats—including those of workers like themselves who helped create that opportunity in the first place.

It's a matter of simple fairness, you see. ■

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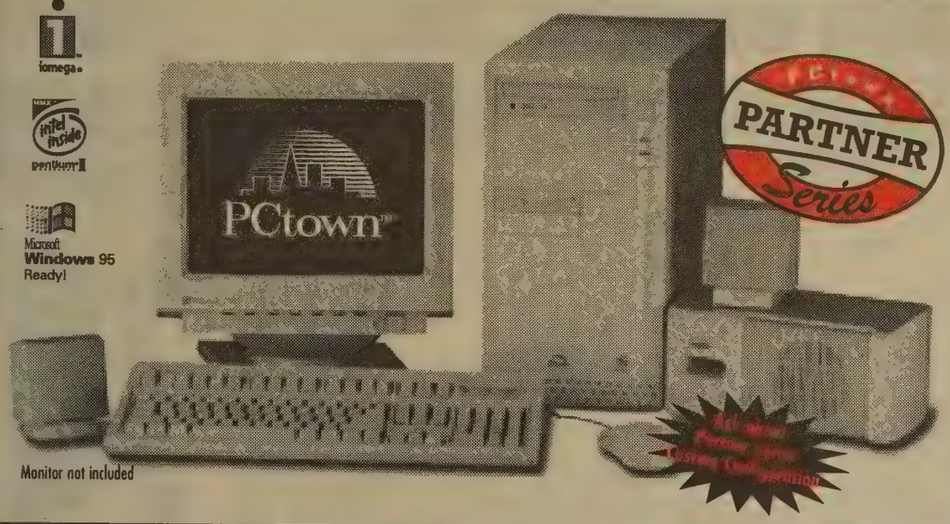

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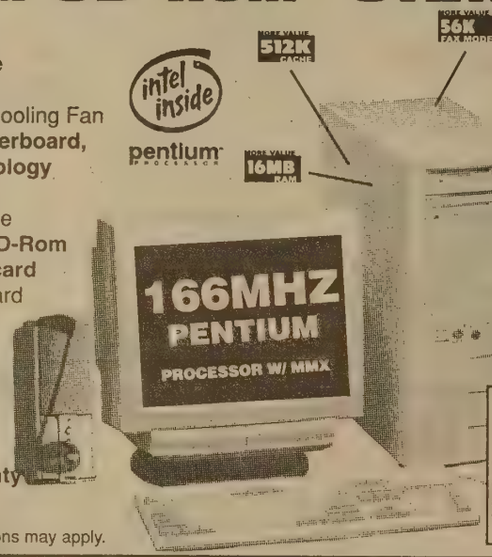

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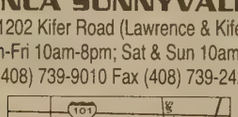

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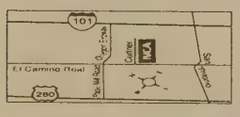

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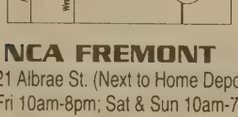

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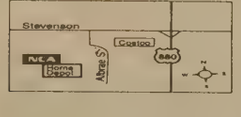

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Road Warrior Presenter $159
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JESSICA™ MULTIMEDIA COMPUTER SYSTEM 2000+

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90 Days

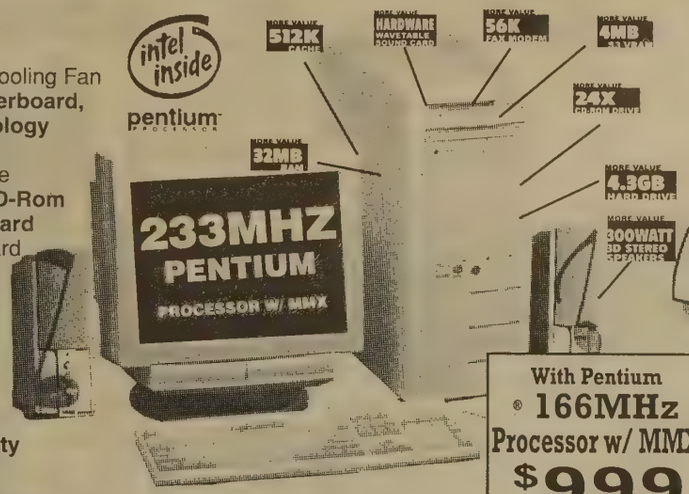
233MHz Intel Pentium Processor w/ MMX Technology

4.3GB HD/32MB EDO RAM Multimedia Computer System

24X-Speed CD-Rom- 512K Cache - 56K Fax/Modem- 4MB Video

- High quality **MID Tower** case
- **512K PIPELINE BURST** cache
- **Intel Pentium® Processor** with MMX™ Technology and Cooling Fan
- **High quality 430VX PCI motherboard, supports Intel MMX™ Technology**
- **32MB RAM** (exp. to 128MB)
- **4.3GB** Enhanced IDE hard drive
- **24X - Speed enhanced IDE CD-Rom**
- **Hardware Wavetable sound card**
- PCI 2MB EDO DRAM Video card
- **56Kbps** Internal Fax/Modem
- **300 Watt 3D** stereo speakers (4" woofer & 2" tweeter)
- 1.44MB floppy drive
- Windows 95 Keyboard
- Microphone
- **Internet Mouse**
- **1 year parts and labor warranty**
- **Monitor not included**

**Subject to credit approval. Other restrictions may apply.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pentium
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ALEXIS™ MULTIMEDIA COMPUTER SYSTEM VII

MORE VALUE

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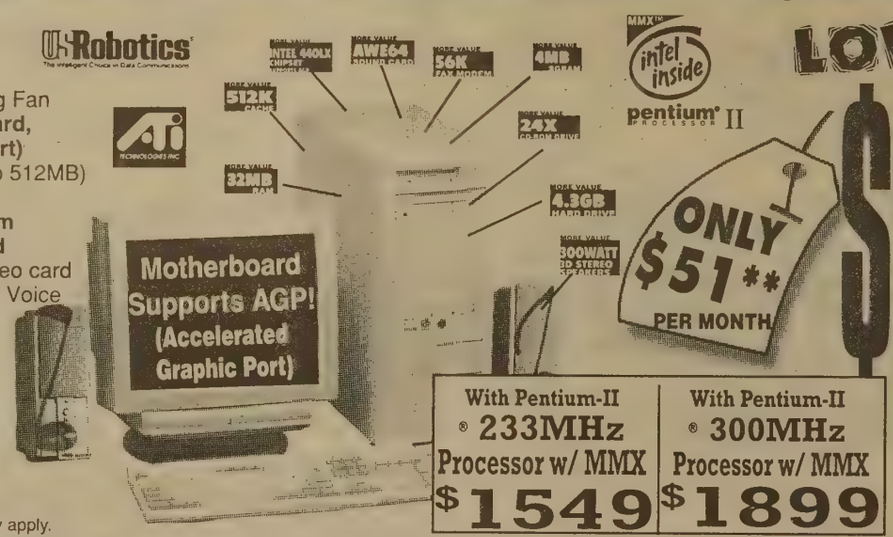
NO Payment
NO Interest
*On approved credit, some restrictions apply
90 Days

266MHz Intel Pentium-II Processor w/ MMX Technology
4.3GB HD/32MB EDO RAM Multimedia Computer System
24X-Speed CD-Rom- 512K Cache - 56K USR Voice Fax/Modem - 4MB Video

- High quality **MID ATX Tower** case
- **512K PIPELINE BURST** cache
- **Intel Pentium- II® Processor** with MMX™ Technology and Cooling Fan
- **High quality 440LX PCI motherboard, (supports Accelerated Graphic Port)**
- **32MB RAM** /168-pin DIMMS (exp. to 512MB)
- **4.3GB** Enhanced IDE hard drive
- **24X - Speed enhanced IDE CD-Rom**
- **Sound Blaster AWE 64 sound card**
- **ATI** 3D Pro Turbo **4MB SGRAM** Video card
- **USR 56**Kbps Internal Fax/Modem w/ Voice
- **300 Watt 3D** stereo speakers (4" woofer & 2" tweeter)
- 1.44MB floppy drive
- Windows 95 Keyboard
- Microphone
- **Internet Mouse**
- **1 year parts and labor warranty**
- **Monitor not included**

**Subject to credit approval. Other restrictions may apply.



intel inside pentium II

LOWER PRICE!

ONLY $51** PER MONTH

$1699

With Pentium-II ® 233MHz Processor w/ MMX	With Pentium-II ® 300MHz Processor w/ MMX
$1549	$1899

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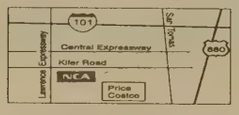

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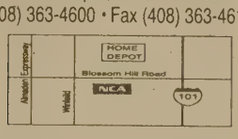

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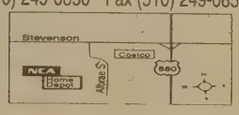

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Logitech MouseMan Serial version Mouse	$29.95
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Microspeed deluxe keyboard	$32.95
Mitsumi 105 keyboard	$17.95
NEC King Mouse serial/PS/2	$12.95
NetMouse magic button	$11.95
Perfect Micro Mouse	$15.95
Sega Saturn game controller	$19.95
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Dexxa 3-button serial mouse	$10.95

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15" 1280X1024 Color Monitor
NCA's High Quality
- 13.8" Viewable
- .28dp
- Digital Controls
- EnergyStar

$195

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ViewSonic-15GA Built in stereo speakers	$375.95
ViewSonic-17PS .25dp, 1600X1280, 50-160Hz	$645.95
ViewSonic-17EA .28dp, 1280X1024, 50-120Hz	$565.95
ViewSonic-17GA Built in stereo speakers	$625.95
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ViewSonic-G810 21" 1600x1200 .25dp 71Hz	$1349.95
ViewSonic-P810 21" Trinitron, 1600X1280, .25dp, 76Hz	$1295.95
ViewSonic-P815 21" 1600x1200, .25dp, 76Hz	$1435.95
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447L 17" N/I 1024X768, 80Hz, built in stereo speakers	$569.95
447Xi 17"Trinitron 1600x1200, 76Hz, .25dp	$689.95
447Xav 17"Trinitron 1280X1024, 85Hz, .25d speaker	$715.95
445Xi 21" Trinitron N/I 1600x1200, .25dp, TCO	$1425.95

17" 1280X1024 Color Monitor
NCA's High Quality
- 16" Viewable
- .28dp
- Digital Controls
- EnergyStar

$365

MAG	
DX15T Trinitron 15", 1280X1024, .25dpi, Plug & Play	$339
DX700T 17" 1280x1024 .26dp 75Hz refresh rate	$619
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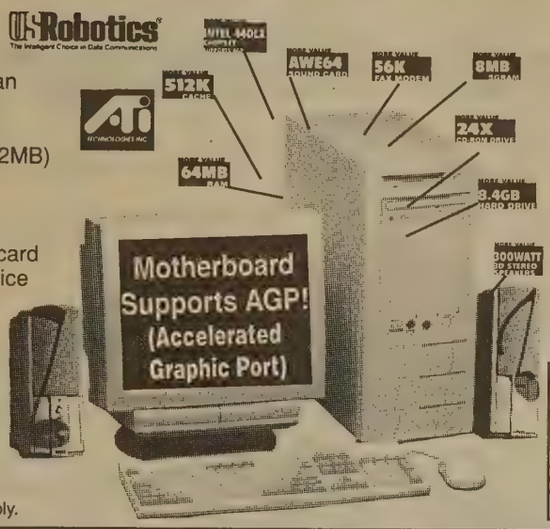

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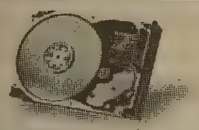

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LAPTOPS • BY ED KAHN

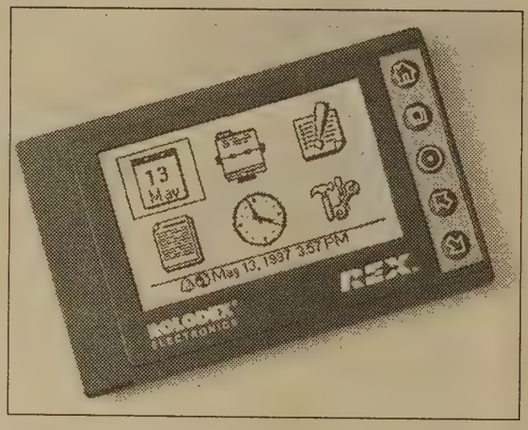
PC Cards Realized

A PC Overhaul Eliminates Frustration And Increases Functionality

Faithful readers may recall that my last column chronicled the frustrations of trying to install a PC Card reader in a too-old desktop machine. I ended the column suggesting that it was time to upgrade to a more modern machine. That is exactly what I did.

Awhile ago, I received a press release from Micro Express saying that they were now prepared to offer major upgrades to older desktop computers. This can be arranged any way you want, but the easiest way is to have them ship you a box for you to pack your old computer. A couple of days later, they issue a call tag and the UPS driver picks up the box and returns it to Micro Express. After they perform the necessary surgery, your nearly new computer is delivered to you. In my case, I had them replace everything but the video and sound cards. I experienced a good deal of anxiety during this process mostly from the feat that the computer would come back without all of my ports and such configured as I wanted. But my apprehension was ill-founded. There were a couple of phone calls to clarify what I wanted, but the upgrade was done perfectly. They even transferred all of my files onto the new computer without any problems.

When I got my new computer back, I began where I had left off before the upgrade: trying to get the CardDock PC Card reader to work correctly. Micro Express had physically installed the reader, as it was installed in the computer I sent them. The problem with the old system was that I could not get the reader to perform properly. On the new system, I configured the PC Card reader as the manufacturer had instructed and it worked the first time. Apparently the technician at Microsoft who had previously told me that my BIOS was too old was correct, because now there were no problems. The CardDock has one Type III slot and one Type II slot. This means you can use any kind of PC Card device and that you can use both slots simultaneously as long as not more than one is a Type III card.



REX is a terrific product that is positioned to be a kernel around which other software products will develop.

Armed with a working PC Card reader, I began to experiment with all of the things I had wanted to discuss in the previous column. First, I tried the Datapak 520 from Kingston. This is a hard drive that plugs into a Type III PC Card slot. Originally, I wanted to transfer large files between my desktop and laptop computers. Nothing could have been simpler. When I inserted the Datapak into the slot on the desktop, a new drive letter appeared. I had no trouble copying files to the new drive. I then unplugged the Kingston drive and put it into the slot on my laptop. Just as easily, I transferred the files onto that computer.

Next, I experimented with the HD Traveler hard drive from EXP Memory Products. My old system simply would not recognize the HD Traveler. This hard drive differs from the Kingston in that it is a hard drive in a housing with a cable that terminates in a Type I PC Card. The Traveler comes in either 1.4GB or 2.1GB models and includes a joystick option that plugs into the hard drive. The drive measures about 2.8" x 6" x 1.1" and weighs 12 oz. Its capacity is considerably larger than the largest Type III hard drive card available. The HD Traveler had enough capacity for me to back up the C drive on my desktop computer. The operation took only 17 minutes! After fighting with tape backups, this was a welcome relief. Hard drives are too expensive for backups, but they certainly work quickly and easily. As prices come down, this may be a viable solution to the backup problem. I suspect, however, that rewritable CDs may turn out to be a less expensive solution.

No sooner had I got my system up and running than I received a new PC Card device for evaluation. Franklin Electronic Publishers has just released a wonderful product called the REX. This credit-card size device plugs into a PC Card Type II slot and automatically downloads all of the data you want through TrueSync, powerful software that comes with the REX and installs on a laptop or desktop computer.

continued on page 52

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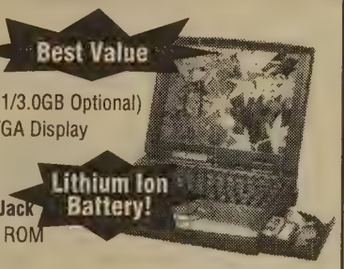

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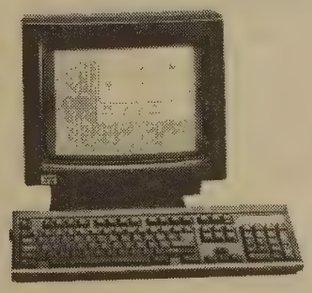

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56K K56Flex™ FaxModem w/ Voice
Creative Labs Sound Blaster AWE 64 Sound Card
Full Range MegaBASS 240W Subwoofer Speakers
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Laptops *continued from page 48*

TrueSync is an information manager that includes an appointment calendar, address book, to-do list, memos, clocks for your home location as well as another place, and an alarm.

The TrueSync software, from Starfish Software, installs easily and can import data from a number of PIMs including Microsoft Outlook, Schedule+, Lotus Organizer, and Sidekick. I believe that importing will become even easier in the New Year when software will automate the import from several of these packages into TrueSync.

I have my telephone and address information on another software package, not specifically supported by the Starfish software. Importing was a snap.

Downloading involves no more than inserting the REX into the PC Card slot and hitting an icon that TrueSync installs on the taskbar in Windows 95. Instantly, all of the information in TrueSync is transferred to REX. This is a terrific product that is positioned to be a kernel around which other software products will develop.

While REX works particularly well with a PC Card reader, if you are working from a computer that does not have the reader, Franklin offers a REX docking station ($39.95) that connects to a serial port.

REX is available in three configurations. The least-expensive model is the REX-I ($129.95), which holds 750 items. REX-3 ($149.95) holds up to 3,000 items. REX-3DS ($179.95) includes the docking station as well as a leather carrying case. Any of the models work equally well and are powered by two lithium watch batteries, which are supposed to last up to six months.

I loaded REX before my last trip and found it to be wonderfully convenient. While I have no criticism to level at the REX itself, I had one problem with the software. While you can print from the TrueSync software, I did not find a template for printing an address book on standard 8.5" x 11" paper. I feel confident this oversight will be addressed in a future update.

In any case, REX is just one of the reasons I am delighted with my PC Card reader and recommend it to anyone who longs for the convenience of the PC Card interface on a desktop.

continued on page 56

RESOURCES:

Micro Express
1811 Kaiser Ave.
Irvine, CA 92713
1-800-989-9900

DataPak 520 PC Card, $549
Kingston Technology, Inc.
17600 Newhope St.
Fountain Valley, CA 92708
1-800-337-8410

CardDock GS-320 Reader, $139
Greystone Peripherals, Inc.
130-A Knowles Dr.
Los Gatos, CA 95030
1-800-600-5710

HD Traveler, $449
EXP Memory Products, Inc.
12-C Mauchly
Irvine, CA 92618
1-800-397-6922

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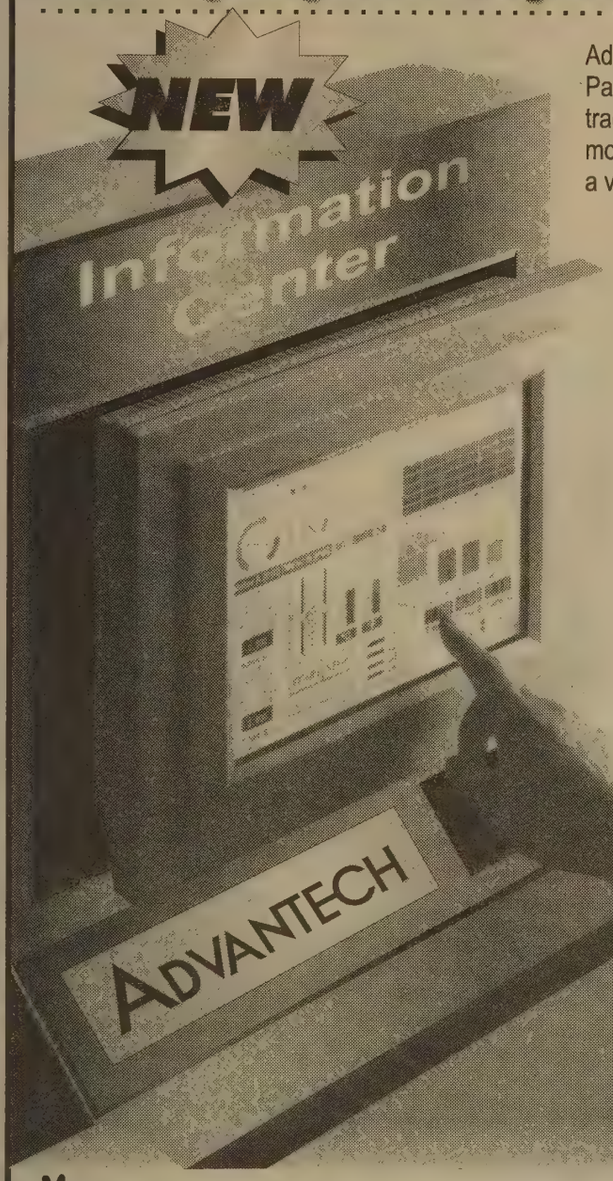

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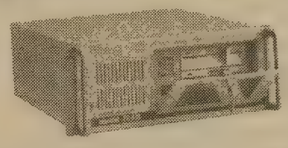
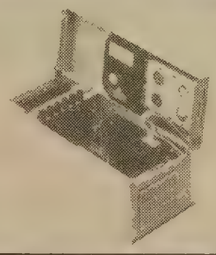
IPC-610 Rackmount Industrial PC



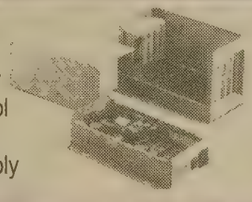
- 14-slot ISA/PCI backplane
- Baby AT version available
- Supports two 5.25" and two 3.5" disk drives
- 250W Power Supply

IPC-6806 Compact Wall Mount PC



- 6-slot ISA/PCI backplane
- Supports two drives
- Cooling fan with air filter
- 150W Power Supply

MBPC-641 MicroBox PC



- 4-slot ISA-bus backplane
- Ultra compact for embedded control
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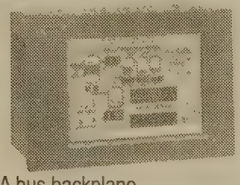
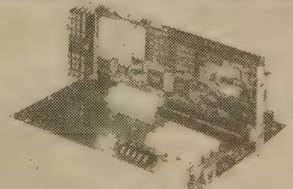
MiPC-51 Workstation w/TFT LCD Display



- 4-slot ISA bus backplane
- Supports two 3.5" drives
- 640x480 TFT Color LCD
- 65W Power Supply

CPU cards



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- Matrox Mystique 220 PCI 4MB SGRAM Video Card
- Medium ATX Tower Case w/ 235 Watt Power Supply
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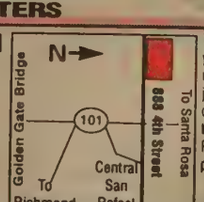

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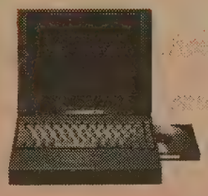

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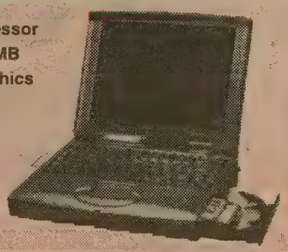

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DX700 17" 1280x1024 .25 NI 615

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CPD-100SX 15" 1280x1024 .25, 60Hz 340
17SE2T 17" 1600x1200 .25 NI, PnP 860
CPD-200SF 17" 1280x1024 .25 NI, 75Hz 665
CPD-200SX 17" 1280x1024 .25 NI, 60Hz, PnP 610
20SEII 20" 1600x1200 .25 NI 1730
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Toshiba XM-6102B 24X IDE Int 77
Yamaha YST-M7 (5W) / YST-M15 (10W) 40/65
Quickshot 14W Amplified Speakers 15
200 Watt Stereo Speakers 25
Toshiba 15X Int. SCSI 140
NEC CDR 1610 16X SCSI 95

CONTROLLERS
Adaptec 2940 / 2940U SCSI PCI w/ Kit OEM . . . 175/180
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DRIVES
Iomega Zip 100MB IDE OEM 105
TEAC 1.44MB 3.5" 23
Quantum ST32160A 2GB IDE 180
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Quantum QM34320ST-A 4GB IDE 260
Quantum QM36480ST-A 6.4GB, IDE 330
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WD-33200 3.2GB IDE 205
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PCMCIA 33.6K Fax Modem 95
PCMCIA 56K Fax Modem X2 145

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P2L97S ATX 440LX Chipset w/ SCSI 335
P2L97DS ATX 440LX, Dual, w/ SCSI 445
P55T2P4 HX, TCI 512K, ATX 140
TX97 512K, w/3 DIMM Socket AT 165
TX97E 512K, 4 SIMM/2DIMM AT 160
TX97X 512K w/3 DIMM ATX 160
TX97-XE 512K w/4 SIMM/2 DIMM ATX 170
TX97-XV 512K w/4 SIMM /2 DIMM ATX 200
Intel Portland 440FX P2 M/B w/Sound 195
Intel Atlanta 440LX P2 M/B w/AGP w/Sound . . . 205/225
QDI P5/430TX w/ 512K Cache AT Mainboard 110
QDI P5/430TX w/ 512K Cache ATX Mainboard 125
AIR P6-LDX-SCSI, Dual Pentium® II, 440 LX AGP, SCSI, UIDE ATX 475
AIR P6-LDX-U-IDE, Dual Pentium® II, 440 LX AGP, UIDE, ATX 365
AIR P6-LXI-SCSI, Single Pentium® II, 440LX AGP, SCSI, UIDE, ATX 325
AIR P6-LXI-IDE, Single Pentium® II, 440LX AGP, UIDE, ATX 215
AIR P5-TXI-SCSI, Single Pentium®, 430TX 512K, ATX, SCSI 245
AIR P5-TXI-IDE, Single Pentium®, 430TX, 512K, ATX . . 130
AIR P5-TXA-IDE, Single Pentium®, 430TX, 512K, AT 115

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Diamond Stealth 3D 2400XL 4MB 95
Diamond Stealth 3D 3400XL 4MB VRAM OEM/Reg 155/180
Diamond Stealth Video 64 2MB VRAM 100
Diamond Stealth Viper V330 4MB AGP 175
Matrox Millennium II 4MB Retail 190
Matrox Millennium II 8MB Retail 295
Matrox Mystique 220 w/4MB 135
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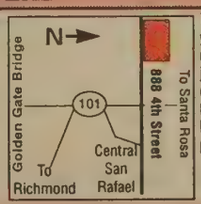

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Laptops *continued from page 52*

Computer Of The Month

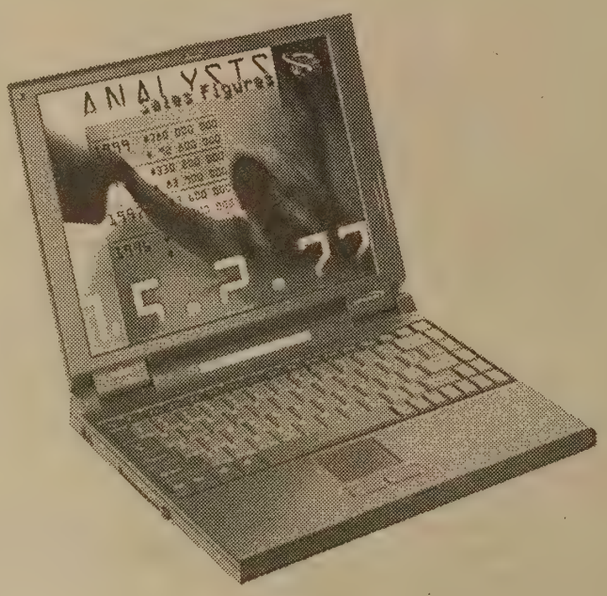
Fujitsu's LifeBook 655Tx

Laptop computers are constantly experiencing innovative advances in design. The problem is always how to get a smaller machine that still has the features we want. Fujitsu has come up with a new approach to this dilemma. In its LifeBook series, they have designed a laptop computer that is extremely thin—1.2"—yet maintains a footprint of 11.7" x 9.2" in order to accommodate a decent size keyboard and a 12.1" display. The trade-off is that the basic machine has neither a floppy nor a CD-ROM drive. Fujitsu addresses this limitation by including an "enhancement unit." This docking station raises the overall size to a thickness of less than 2.5" and increases the weight to just over 7 lbs. The basic unit weighs in at 4.4 lbs.

The LifeBook is powered by a Pentium 150MHz MMX processor and includes 16MB of EDO RAM, expandable up to 80MB, and a 1.3GB hard drive. While there is no floppy drive in the basic system, both a floppy and 8X CD-ROM drive are found in the enhancement unit. In addition, you can buy an extra floppy drive ($125) that attaches by a cable.

Despite the thin profile, the keyboard is as good as what you find on most laptops. The touch and feel are adequate and the layout is excellent, with the special Microsoft keys that I like. Nevertheless, I recommend a full-size keyboard for when you are not on the go. Fujitsu has a port on the back for either a mouse or a PS/2 keyboard. The enhancement unit has two ports so you can connect both mouse and keyboard. I recommend a mouse for this laptop—I had lots of trouble with its built-in touchpad. Some touchpads are a pleasure to use, but I had difficulty getting the pointer on this one to go where I wanted.

The basic LifeBook system comes with a lithium ion battery that provides power for about an hour. However, it also comes with another more powerful lithium ion battery that



hooks onto the underside of the computer at the back. Fujitsu calls this the main battery and the internal one a bridge battery. The main battery increases the working time to about two and a half hours and also gives a nice slant to the machine for ease of typing. When you attach the computer to the enhancement unit the main battery fits into a depression in the enhancement unit. Extra main batteries are available ($275).

There are two Type II PC Card slots on the laptop itself. One of these supports Zoom'video and the system supports MPEG-1 video data decompression. This will allow you to watch smooth video playbacks. There is also a built-in microphone and a single speaker for monaural playback. The sound system is Sound Blaster-compatible. The base system has jacks for microphone and earphones. The enhancement unit has a pair of speakers.

The LifeBook comes standard with a 33.6 fax-modem. There are, of course, serial and parallel ports on the back as well as a video port that allows you to install an external monitor at your primary work location. The final interface is an IrDA infrared window that allows wireless transmission of files.

I like Fujitsu's approach. The problem with most docking stations is that you simply cannot carry them with you. Fujitsu has designed this system so you can carry the attached enhancement unit and the computer itself in one of its accessory cases. Even with the enhancement unit, the LifeBook is still no heavier than some of the larger laptops on the market. The design of the enhancement unit is such that you would not even realize that the computer connected to the enhancement unit is made up of two modules. Fijitsu sells extra enhancement units ($399) so if you work regularly between a couple locations you can have one in each location.

The LifeBook fills a special niche, but at an entry price of $2,499 it should appeal to a wide audience. I suspect that this is just the beginning of powerful laptops in slim formats that have a large screen and keyboard. ■

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RESOURCES:

LifeBook 655Tx, $2,499
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BY FABIAN PASCAL

32-bit Computing

Selecting A System Board

In the last column (Issue #171) I explained the importance of the system (or memory) bus speed for the performance of a PC system, particularly the increasingly important graphics subsystem. Even the faster SDRAM, with a throughput of about double that of EDO RAM, limits the advantage from the new Advanced Graphics Port (AGP).

For better performance at the current CPU-memory path—64-bit—reliable, official support of 100MHz bus speed is essential; Intel's and AMD's plans reflect recognition of this fact. Memory performance is one factor that that has been holding this back (see below).

Because the chipset around a system board determines the bus speed, as well as a host of other very important features (memory type, L2 cache, CPU, PCI bus, multiCPU support, AGP, USB, IrDA, PS/2 mouse, PCI/EIDE, BIOS), your board selection should start with the chipset.

For maximum performance, the real choice will be between two forthcoming types of system boards:

1. Super (Socket) 7:

• Chipset—here the choices will be:
  — VIA (VP4?)
  — AMD?
  — ALI?
  — SiS?

• CPU:
  — AMD K6, particularly a new K6-3D with built-in 256K L2 cache, starting at 300MHz demoed at COMDEX (1H98)
  — Enhanced, faster Cyrix 6x86MX (2H98)

(Note: differences between AMD and VIA have been resolved; AMD is cooperating with all chipset manufacturers.)

2. Intel's Slot 2:

• Chipset: Intel 440BX
  —CPU: Pentium "Deschutes" starting at 350MHz (2H98)

It turns out that Intel will not implement the 100MHz bus in Slot 1 boards, as I wrote last time. Rather, it will develop yet another type of board—Slot 2!

Faster Pentium II versions will continue to be produced for Slot 1 boards at 66MHz (with the current LX chipset), but the Deschutes CPU will carry a different name (so PII users won't be able to upgrade their systems to take advantage of the faster bus).

Tests of current boards with the Intel LX chipset at greater-than-66MHz bus rates show significant performance gains. In fact, some vendors are starting to support a 75MHz bus (and 37.5MHz PCI bus) in Slot 1 boards. In the last column I already mentioned such support in some Socket 7 boards.

Note very carefully that system boards using the same chipset do not necessarily have the same quality, performance and features.

You may also want to consider a dual CPU board. You'll need an operating system that supports Symmetric Multi-Processing (SMP). Windows NT Workstation supports two processors; NT Server, OS/2 and Linux, more.

CPU Support

For Super 7 boards, support of K6/K6-3D and 6x86 means BIOS detection of the CPU and enabling of any special features it has. It also means proper voltage support for the CPU (e.g. current boards must support "dual plane voltage" of 2.8/3.3V for the 6x86MX and 3.2/3.3V for the K6). Slot 2 boards will support whatever voltage(s) the new Pentium (and only it) will require, as everything is Intel.

Those in the know recommend a switching voltage regulator—rather than the more common passive ones—for the following reasons: "Switching voltage regulators are to be preferred, since they don't just waste the main power supply energy by converting it into heat as the passive regulators do... [they] are much less sensitive to low-quality power supplies... you should rather go for [one], because [otherwise] it can lead to a complete inability [to run] your system in case your power supply is of poor quality and the CPU needs much power, e.g. the K6 233." [*Tom's Hardware Guide*]

You may also want to consider a dual-CPU board. This will increase the price considerably and, depending on needs, may not necessarily benefit you, at least not in the short run. First, you need an operating system that supports Symmetric Multi-Processing (SMP). Windows NT Workstation supports two processors; NT Server, OS/2 and Linux, more. Second, performance improvements, if any, will depend on your applications: how CPU-intensive they are and whether they are "multithreaded" to take advantage of multiple CPUs (improvements can range from 40% to 80%). One possibility is to get a dual-CPU board and leave the second CPU as a future option.

Note, however, that a dual-CPU decision may limit your motherboard choices. First, only Intel Pentium CPUs (all generations) support SMP. Second, dual-CPU boards may not have all the other desirable features.

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32-bit Computing *continued...*

Memory

No matter what happened to other components, RAM used to be the simplest choice: there was just one type, Frame Page (FPM) RAM. Not any more. EDO, BEDO, and the most recent and fastest, SDRAM, have been making memory as hard to keep up with as anything else.

FPM and EDO/BEDO RAM don't cut it at bus rates of 100MHz and beyond, so the only option is currently SDRAM, which is also the least AGP requires to provide any benefits (more on AGP in a future article).

At its faster speeds (about double the throughput of EDO RAM), implementation and quality become critical issues with SDRAM. Currently, boards can be quite fussy about to what SDRAM from which manufacturers (chips and/or the modules they're set into) they encounter. There are at least three standards being developed for the SDRAM interface and it's not clear what the ultimate consequences will be (When some of the dust settles, I will dedicate an article to the subject). You need to wait for the faster bus and CPUs anyway, but if you need SDRAM now, ask the maker of the system board for recommedations.

As a rule, get as much memory as you can afford—64MB at a minimum, 128MB if you work with large graphics files. It is more cost effective to increase performance by adding memory than by upgrading the CPU.

As a rule, get as much memory as you can afford—64MB at a minimum, 128MB if you work with large graphics files. It is more cost-effective to increase performance by adding memory than by upgrading the CPU. The larger the DIMMs accepted by the board (128MB are available, 256MB forthcoming), the less sockets will be used, the more RAM acceptable by the board and the less deleterious effects on performance.

L2 cache speed is the main effect of the increased bus speed. The more cache on the board, the better, so get one with at least 512KB and preferably more—up to 2MB if it becomes available (make sure that the system board caches all RAM, not just 64MB—causing a performance hit of about 5% if you have more of it—this may require TAG RAM; the 440TX chipset has this limitation).

Other Features

You will want as many card slots as possible.

Most new boards will have an AGP slot. An AGP video card (as well as SDRAM) is required to take advantage of it. But even though such cards are already available, the benefits won't materialize until AGP-aware software shows up; until then, the AGP cards won't perform better than the current PCI cards.

The board layout and CPU location should not prevent the use of long cards, if you will ever need to use any (e.g. DPT SCSI controller). ATX-form boards do not block them, and provide additional benefits relative to the AT format, such as better cooling for the CPU and on-board I/O ports, reducing wiring mess. They require ATX cases and power supplies.

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○ No Preference

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Step 1: Enter NoteBook Brand Name & Model #, If Preference

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10 or More ○ Call Me For A More Detailed Quote. ○ Quote Me For Selected Upgrade/Peripherals Choices Only. ○

STEP TWO: SYSTEM CONFIGURATION: ○ INTEL ○ PENTIUM ○ PENTIUM MMX ○ PENTIUM PRO ○ PENTIUM II ○ DUAL CPU'S
○ MACINTOSH ○ MACPOWER BOOK ○ MacCLONE ○ AMD ○ CYRIX

CPU MHz & SPEED:
○ 5X86 ○ 6X86 ○ K-6 ○ Quadra ○ PowerPC
○ 266 ○ 233 ○ 200 ○ 180 ○ 166 ○ 150 ○ 133 ○ 120 ○ 100

BUS TYPE: ○ PCI ○ VLB ○ EISA ○ ISA

CACHE: ○ 64K ○ 128K ○ 256K ○ 512K

RAM: ○ EDO ○ SRAM ○ 4MB ○ 8MB ○ 16MB ○ 32MB ○ 64MB ○ 128MB

MONITOR: ○ SVGA ○ VGA ○ MONO ○ 26 DPI
○ 14" ○ 15" ○ 17" ○ Non Interlace ○ 28 DPI
○ 20" ○ 21" ○ Multisync

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FLOPPY DRIVE: ○ 1.44MB and/or ○ 1.2MB

FAX MODEM: ○ Internal ○ External ○ 33600bps ○ 56000bps ○ 28800bps

CASE TYPE: ○ Mid Tower ○ Desktop ○ Full Tower

VIDEO CARD RAM ○ 512KB ○ 1MB ○ 2MB ○ 3MB ○ 4MB

POINTING INPUT DEVICES: ○ Any Mouse ○ MS Mouse ○ Keyboard ○ Serial ○ Bus ○ PS2 ○ Trackball ○ Joystick ○ Ball Point ○ Pen

OPERATING SYSTEM NEEDED: ○ Windows 95 ○ OS2/Warp ○ Win NT ○ Mac ○ UNIX ○ DOS/Windows 3.11

STEP THREE: MULTIMEDIA UPGRADE ○ Please Add To Step 1 & 2 Quotation ○ Please Quote Me Separately

CD ROM DRIVE: ○ Internal ○ IDE ○ SCSI ○ External

CD ROM TITLES INCLUDED: ○ 1-5 ○ 5-10 ○ 11+

○ 8X ○ 10X ○ 12X ○ 16X ○ 20X

○ BRAND NAME ○ No Brand Name Preference

CD ROM Brand Name and Model Number

SOUND CARD ○ 16Bit ○ 32Bit ○ 64Bit

SPEAKERS ○ Less Than 25W ○ 25 to 50W ○ 50 to 75W ○ More Than 75W

STEP FOUR: NOTEBOOK SECTION - Please Note You Must Make Choices In Steps 1 & 2 To Complete Step 4

SCREEN TYPE: ○ 10" ○ 11' ○ 12' ○ Active Color ○ Dual Scan ○ 13'

PCMCIA SLOT: ○ Type II ○ Type III ○ Type IV

○ Audio Capable ○ Docking Station ○ Extra Battery ○ Fax Modem ○ CD\MultiMedia

STEP FIVE: NETWORKING NEEDS: ○ Please Contact Me on My Networking Needs Indicated Below
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○ Users 2 to 10 ○ Users 10 to 50 ○ Users Over 50 ○ Lantastic ○ Apple Talk ○ Novell ○ MS NT

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STEP SIX: UPGRADES & PERIPHERALS: ○ Ink Jet Printer ○ Tape Backup ○ Accelerator ○ Digitizer
○ Laser Printer ○ Color Printer ○ Dot Matrix Printer ○ Flat Bed Scanner ○ Hand Scanner

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QUOTATION HOTLINE

32-bit Computing *continued...*

If you have, or will have, a printer, or notebook with an infrared serial port, you will want one on the system board too. The benefits from the Universal Serial (USB) port are yet to materialize, but all-in-one scanner/printer/copier/fax peripherals (or even just scanners) are good candidates, and products which exploit it may well become available during 1998.

Flash ROM BIOS for easy upgrades, a Soft-Power option and jumperless design are recommended. Some current boards come with a SoftMenu BIOS feature, which allows to set the bus speed and CPU multiplier (which yields the internal clock rate) without any jumpers or switches. While this is usually done once by the vendor or whoever puts the system together, if you need to experiment with, or test various bus and multipliers (for example, when you change hardware or software), this is a desirable convenience.

In practice, it is not easy to find a high quality, well performing baord with all the desirable features. Many users opt for already assembled systems precisely to avoid the hassle.

Reality Check

Aside from performance and features, the motherboard.org web site recommends considering the following:

- Quality of workmanship, manual, and design
- Compatibility
- Compliance with industry specifications
- Stability
- Price/Performance
- Support, drivers, warranty, and locations of the company

In practice, it is not easy to find a high-quality, well-performing board with all the desirable features. Many users opt for already-assembled systems precisely to avoid the hassle.

But even though integrators offer "to-order" configurations, the choice of components—and particularly the system board—is still limited. Even if you decide to go that route, it is still a good idea to understand the compromises involved and choose them consciously and intelligently.

You will probably fare better on features and performance if you opt for "best-of-breed" components and have them assembled for you. This may add to the cost (and hassle) but, if you shop carefully, saving on individual components may offset that.

Make sure, however, that your integrator is reliable and stands behind the work with good support.

This series helps with either of the two alternatives. Waiting for the new 100MHz bus systems, I will benchmark, for starters, two systems: My old one—Socket 7, Intel FX chipset, 66MHz bus, Pentium 100MHz; and a system I am putting together from components—Slot 1, Intel LX chipset, 75MHz bus, Pentium II.

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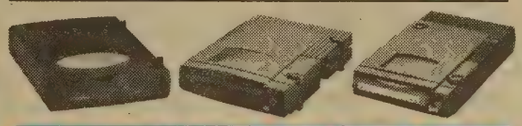

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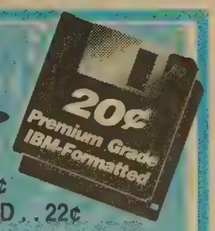

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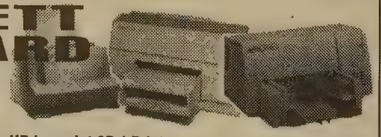

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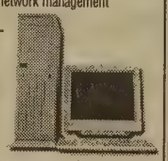

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32-bit Computing *continued...*

The two system boards are described in Listing 1. The results will serve to assess the impact of bus speed on performance, as well as to gauge improvements from the forthcoming faster bus, processors and peripherals. ■

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LISTING 1:

	Socket 7 (old)	Slot 1
CPU	Pentium [1]	Pentium II
MAKE	AIR 54CPI	SOYO SY-6KB
CHIPSET	Intel 440FX	Intel 440LX
BUS	66MHz	66/75MHz
PCI	33MHz	33/37.5MHz
L2 CACHE	256/512KB	256/512KB
MEMORY	2x72pin SIMM 4x168pin DIMM max 128MB (1/2/4/8/16/32MB) FPM DRAM	max 1GB (8/16/32/64/128MB) SDRAM (ECC)
EXPANSION	4 x PCI 4 x ISA 1 x AGP	3 x PCI 3 x ISA
ON-BOARD	I/O 2xATA E-IDE 1 x Floppy 2 x Serial 1 x Parallel IrDA [4] 2 x USB PS/2 mouse [5]	2 x ATA E-IDE/UltraDMA [2,3] 2 x Serial 1 x Parallel
BIOS	Phoenix Green, PnP	Award DMI, green, PnP 2MB Flash EPROM
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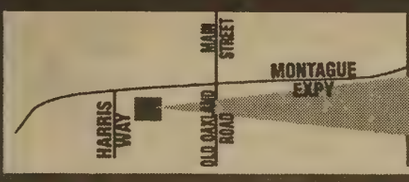

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SMALL OFFICE/HOME OFFICE • BY BIRRELL WALSH

Mapping Data

Using Business Map To Get A New Perspective On Information

If you have a fat database of information, and you can't seem to get anything useful out of it, maybe you're using it the wrong way. Data in rows and columns is good for adding up, but it's hard to act on—too abstract and enigmatic. So we tend to ignore it ("Too much for me!") or oversimplify it ("Give me the bottom line!").

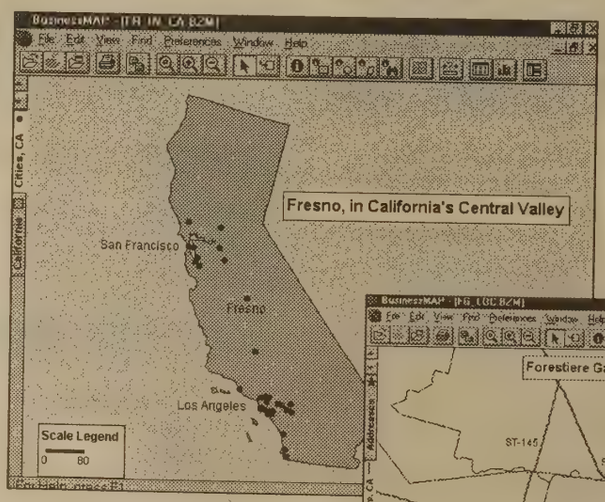
Numbers, words and tables represent only one style of understanding information. Another is visual. Our primate ancestors survived by taking in complex situations at a glance and sizing them up in all their intricacy. As a result, we have rich wiring in our nervous systems for comprehending elaborate visual displays. If we can get the information from our databases into a map, maybe we can use all that primate eye-skill to help us along.

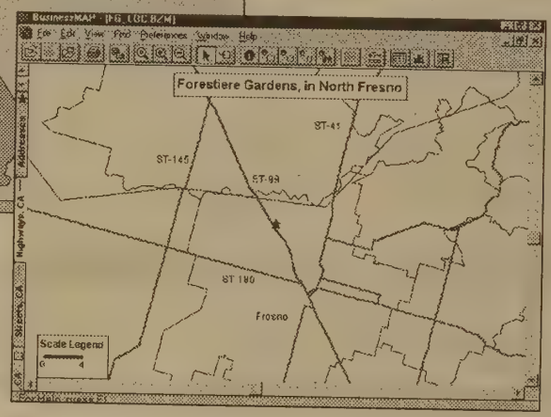
Business Map

The mail recently brought me a product from ESRI, which produces Global Information Systems, high-end mapping programs used in very expensive operations. But for the small user, they produce the $100 Business Map. Business Map converts databases into rich maps. Abstruse tabular data can be made into visual displays—quickly, accurately and easily.

To try out its various features, I used it in planning an imaginary meeting in Fresno. Architectural groupies—I am one myself—will travel a great distance to see a fine building. We can bring the Architectural Groupies of America to Fresno to see the Forestiere Underground Gardens, a complex of rooms and tunnels dug into the earth by Sicilian immigrant Baldesar Forestiere. It is now in the National Register of Historic Places. If you can't visit Fresno, see it on the Web *(http://www.fresno.edu/~kennsrem/preserve/nrhp/forest.htm)*.

Since I do not live in Fresno or know it very well, I begin by opening the Business Map program, and choosing a map of California. The maps are painted in layers, like the transparent overlays of old anatomy books, so you can put in just as much information as you want.





First, I open the California collection—one of the folders provided for each state in the Union, not to mention several foreign countries and the world as a whole. I begin with an empty outline of California. Then I ask the program to add a city layer. Blue dots appear for the major cities. I want to label only three cities, Fresno itself, Los Angeles and San Francisco. It takes a moment to open the city database and find each of those cities. (I could have done the same thing by clicking on the city location, but I am so ignorant I am not sure which valley city is Fresno.) In this database view there is a "label" button. One click on the button for each city, and upon returning to the map view I find that the three I wanted are labeled. I adjust the captions, and the first map is done: "Fresno, in California's Central Valley."

Now I want to create a map of Fresno, with the gardens on it. I zoom in on Fresno, and add a "city limits" layer. This gives an outline of the city. My problem is that I have absolutely no clue where the gardens are in the city.

Fortunately the Web site gives an address. A little browsing in the Business Map manual, and I know how to find an address. It takes adding one more layer, a "streets" layer. Because this layer is so detailed, it makes more sense to leave it on the CD, and draw from it only when necessary. When it is installed, a new choice appears on the menu: "Find by address." I type in the address and hit return. Business Map thinks for a few moments and adds a star to the map. It turns out that the address is in north Fresno.

But how will people find it? If, like me, they are coming from out of town, they will need more information than this. They will probably be coming in on one of the highways that meet in Fresno, so I add another layer to the map: "state highways." Several red lines snake across the city. Because I do not know the city, I am clueless about which highways these may be,

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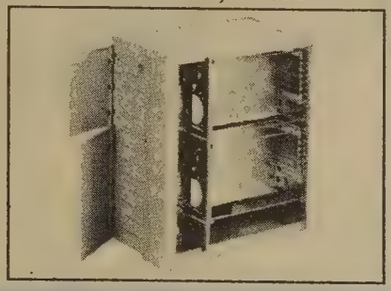

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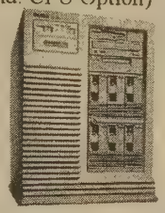

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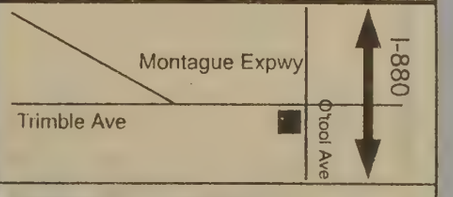

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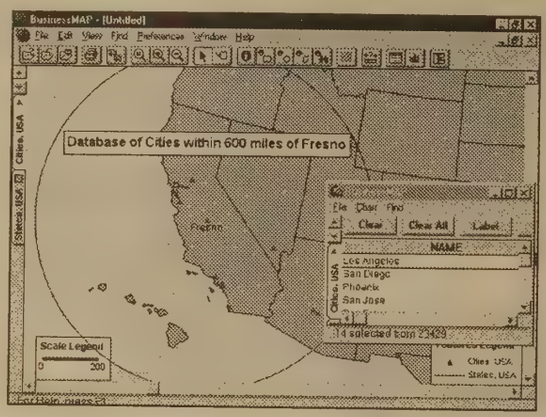
Small Office/Home Office *continued...*

but the program is ready to assist again. There is a "label" button on the toolbar. After I click on it, my cursor changes to a tiny package-label. Any time I click on a feature, its name appears. Click, click—it seems that the Gardens are not far from several major routes, and they are almost on top of Highway 99. This map gets labeled "Forestiere Gardens, in North Fresno," and saved.

I know that people need more detail, though—at least, I do—so I use the "zoom in" command on the area around the star. Streets appear for the first time. They are unlabeled, but with growing confidence I push the label button and festoon the map with the names of streets that pass near the site. This map gets labeled with the exact street address and the intersection, and goes into the folder with its predecessors.

At this point I compare what I have seen with other mapping products. The local mapping and symbol generation is not quite as elegant as DeLorme's Street Atlas USA. Now in its fifth version, Street Atlas is the way to go if you want superb local maps and trip routing.

Business Map is quite adequate in this respect, however. I would not be embarrassed to distribute the maps it makes. They can be printed from the program, or they can be exported to .BMP, .CGM, .DRW, .PCT, .PCX, .TIF and .WMF formats. I cannot imagine why they have not included the Web standards (GIF and JPEG), but most graphics programs will convert from what they do offer to the latter.



From Maps To Tables

A number of programs like Street Atlas move from data to maps. Business Map's particular strength is that it is bi-directional—you can also move from the maps to data. Let us imagine that we want to send special directions to those who may come by car to the event. We guess that anyone on our membership list who is within 500 miles may just motor to the conference.

But who are they? Business Map lets us use the map itself to find out.

I begin by assuming that all our members are in the United States, because that will let me use ZIP codes. I clear the maps built so far, and load a US map.

The first step is to choose a database to include. Business Map supports dBASE, Access, Paradox (up to v.4), Excel, Lotus, Goldmine and Maximizer files, as well as various text-only formats. The file

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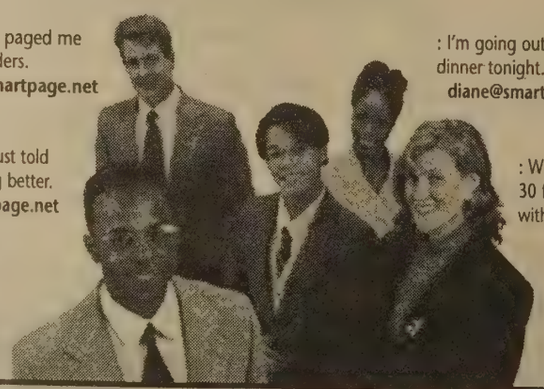

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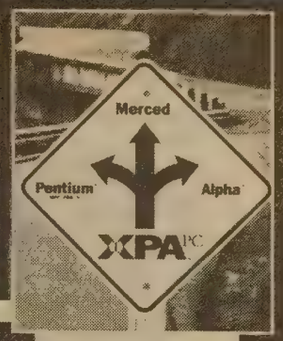

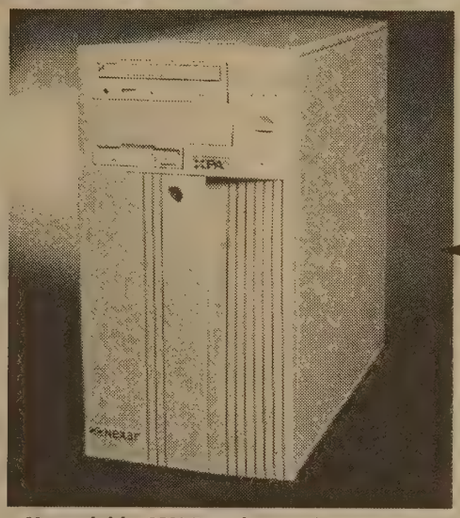

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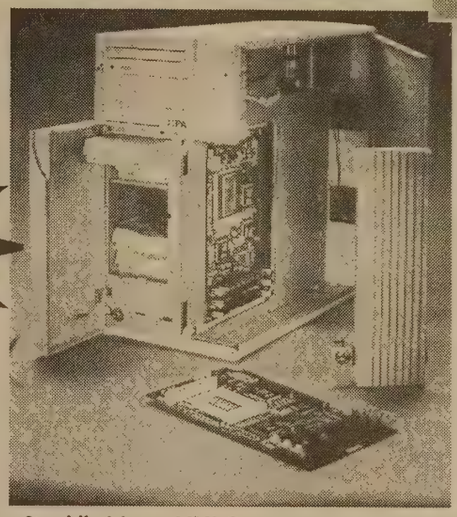

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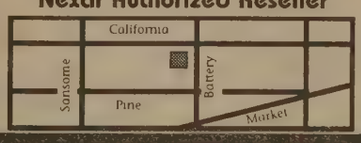

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must have ZIP codes, as they are used to tie the records of the database to locations in the US.

You can add the database to the map just like the other layers. I choose the database of members and load it. There is a bit of grinding as the program finds the geographical location and maps every one of the members onto the US map that was loaded before it. In a moment I have a map made from the database, showing a dot for each of the 219 members of my mythical organization.

Then I want to locate all the members who are within 500 miles of Fresno. The program allows you to find all records of a database that are within a certain rectangle, polygon, or circle that you draw on the map. The circle is just what I need. I choose the "Find by Circle" option and click on Fresno as the origin. With my mouse I extend the radius of the circle on the map. The distance in miles appears on the bottom of the screen.

The program allows you to find all records of a database that are within a certain rectangle, polygon, or circle that you draw on the map.

Because the circle is being drawn as I work, I quickly discover that my 500-mile circle will exclude a cluster of members in central Arizona. Do I want to include them? I discover by experimenting with the circle that a 600-mile radius will bring them in. A second click fixes the circle at just over 600 miles. The database is adjusted to show the ninety members (from the original 219) who are included in this circle. I can export this selected sub-database in .dbf format, which most programs will import, so I can use it to mail out the driving directions. I have used the map to create a database, as a few moments before I had used the member database to create a map.

Show Me The Money

It is possible to color-code a map by using information from a database. A variety of included databases lets you try this out, including a great deal of census data. (You should remember that most of this data came from the 1990 survey, however, so it is quite dated information in America's quickly changing demography.)

I used it to compare our membership's locations with the 1990 median rent in various states, a very rough measure of income. It was my thought that we might have more members in rich states, but a quick look at the map convinced me that my idea was wrong. One of the best uses of visualized data, of course, is to check your bright ideas before mentioning them to others.

Color-coding maps from databases this way is one of Business Map's most useful functions. In the tutorial, ESRI shows you how to compare counties with certain age distributions with your dealership database. You could use such a map to find out where you have too few or too many franchises for age-specific products. They also use a local street-map to find high-and-low crime areas. Because the program lets you transform numeric information from databases to regional maps, you can use it to illustrate almost anything for which you have data. The areas for which you can color-code include states, counties, cities, three-digit ZIP codes and five-digit ZIP codes.

continued on page 78

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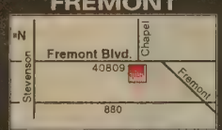

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-Keyboard, Case
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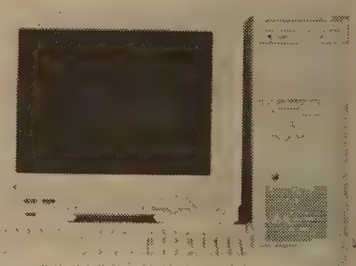

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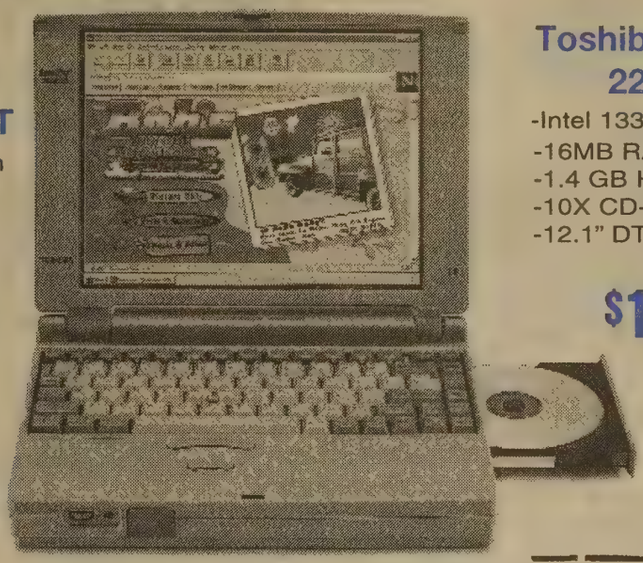

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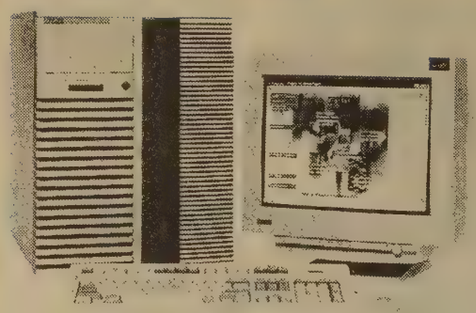

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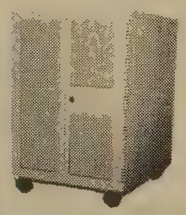

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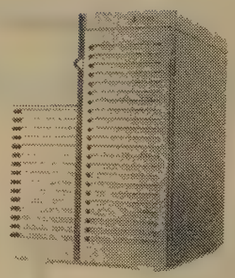

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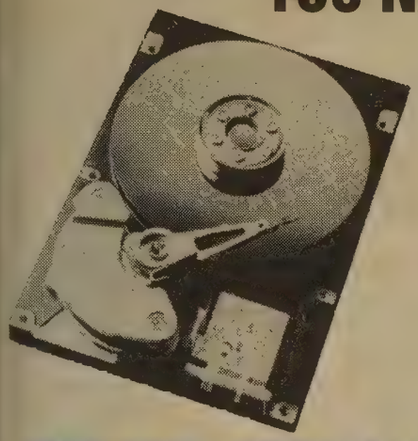

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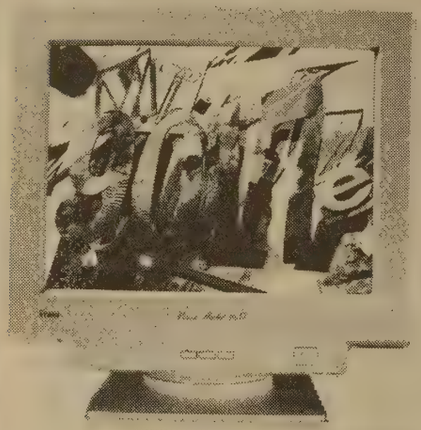

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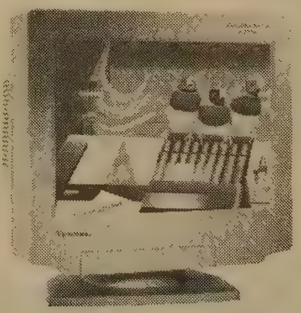

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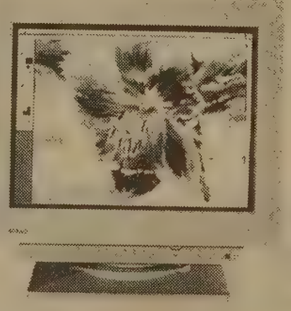

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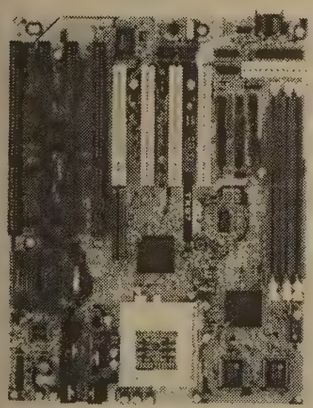

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Small Office/Home Office *continued from page 70*

Business Map also has a charting function. You can use it to convert database information into eighteen different kinds of charts. This is an almost-useful function. It allows you to chart any information that you already have in your database against any other information you have in your database, and that is a good thing. If you have the donations your members have given you, for instance, you can chart contributions vs. members.

What you cannot do is chart the total amount given by all the members in a state, unless you have created such a database in some other program. This is quite frustrating, because Business Map does calculate this information for itself, to do the color-coding. I cannot understand why ESRI has not made this cross-tabbing function available to the end-user. I hope it will appear in a future version.

There are one or two additional bells and whistles. You can measure distance between any two points on the map. As this is straight-line distance, the function is useful mostly for flyers. If our membership is coming by private plane to view the gardens, I can tell them that Business Map says it is about 160 air miles from SFO to Fresno, and about 820 to Denver.

Is This For You?

The primary value of Business Map is its ability to convert tabular information into a picture. In this trial for our fictitious Architectural Groupies' association, we made local and regional maps to guide them to a meeting. We found where our members lived. We noted that any kind of numerical database information can be converted into a color-coded map, and that to some degree you can go from a database back to a map. It is possible to overlay a wide variety of map sub-divisions, and to display databases on the maps as color-codes.

If your business needs this kind of display, the program will pay for itself very quickly. If you team the program with a good database that can produce the cross-tabulations and other calculations omitted from this version, you will be one happy primate indeed. You will be able to convert tabular to visual data and back, both as maps and as charts, and use all the strengths of each style of understanding information. ■

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HOME/STUDENT P5/166 (MMX)	16MB	1.3GB	16X	33.6K	15" SVGA	1MB	850
OFFICE/ENGINEER P5/200 (MMX)	16MB	2GB	16X	33.6K	15" SVGA	2MB	1100
OFFICE/ENGINEER P5/233 (MMX)	32MB	3GB	24X	56K	15" SVGA	4MB	1240
SUPER GRAPHIC PII/233	64MB	6GB	24X	56K	17" SVGA	4MB	1699
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32MB (8x36-60) EDO $89
64MB (16x32-60) EDO . . . $189
16MB (2x64-60) 168 pin . . $38
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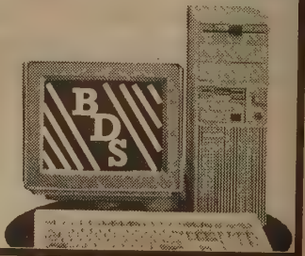

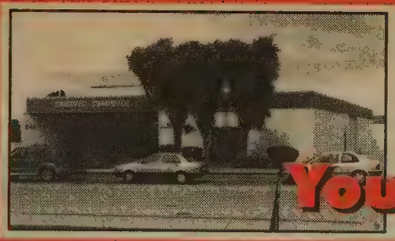

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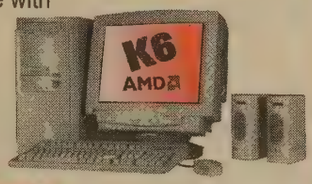

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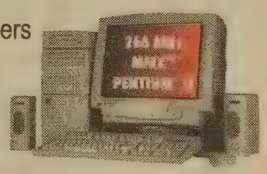

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Pentium II - 233 $1464 Model PII 233 CS

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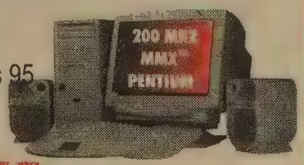

$871 Model PTM 200 CS

Pentium® 166 MMX **$786** Model PTM 166 CS

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- 1.44 MB Floppy Drive
- 20 X EIDE CD ROM
- ESS 16 Bit PNP Sound Card
- 60W Amplified Speakers
- 104 Key Keyboard
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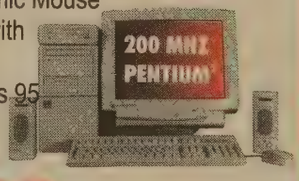
- Mini Towa Case with Power Supply
- Microsoft Windows 95



$805 Model PTB 200 CS

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Pentium 133 **$734** Model PTB 133 CS

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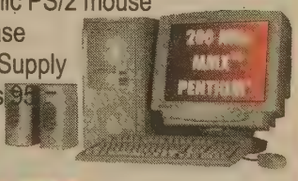
- Microsoft Ergonomic PS/2 mouse
- ATX Mid Tower Case with 230W Power Supply
- Microsoft Windows 95



$1171 Model PIM 200 CS

Pentium 166 MMX $1086 Model PIM166 CS

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ACCOUNTING • BY DAVID A. SIMON, CPA AND JENNIFER R. CHERNISS

Taxpayer Relief Act of 1997

Overview Of Tax Law Changes Affecting Computer Industry Players

The Taxpayer

Relief Act of 1997, signed into law last August, was the biggest tax cut in more than 16 years. Unfortunately, all thoughts about tax simplification seem to have been forgotten.

With tax season approaching, hardware and software developers, programmers, technical consultants, and their tax advisors are now sifting through over 800 Internal Revenue Code amendments and nearly 300 new provisions to discern what's relevant. The sheer girth of the legislation attests to the task at hand—a standard reference book of the new legislation crams about 1250 pages with small type. This article summarizes some of the provisions most likely to be encountered in the computer industry, especially among programmers and technical consultants.

Home Office

Although not specifically targeted to technical workers, techies will benefit a bit from a number of not-too-generous small business tax provisions. Perhaps the most significant of these are new rules liberalizing eligibility to claim a deduction for an office in the home.

Most people seeking a home office deduction have been at the mercy of a requirement that a portion of the home be used exclusively as the taxpayer's principle place of business. For example, a consultant using a quarter of her residence exclusively for business would deduct a quarter of household expenses, including depreciation, as a business expense. In a famous 1993 case (*Soliman v. IRS*), the Supreme Court restrictively defined the term "principle place of business" as the place where a taxpayer performed "the essence of the professional service." Under *Soliman*, merely performing administrative and managerial activities at home doesn't make it your principle place of business. Quite a number of technical consultants who managed and administered their business at home but then drove to their clients' locations to work on-site lost the home office deduction.

The new law essentially overturns the *Soliman* criteria by expanding the definition of "principle place of business." Under the new rule, a home office may qualify if:

(1) the office is used by the taxpayer to conduct administrative or management activities of the taxpayer's trade or business; and

(2) there is no other fixed location of the trade or business where the taxpayer conducts substantial administrative or management functions of the trade or business.

*Some provisions of the **new tax law** are specifically targeted to the computer industry. Key among them, Congress overturned **IRS regulations** that had kept computer software licenses from qualifying as tax-favored **export property.***

The doubly-good news is that more situations now qualify for consultants to deduct the cost of traveling from their home to and from their clients' locations.

There are flies in this ointment, however. First, the new rule takes effect only after the end of 1998. Meanwhile, *Soliman* remains the law. Also, some or all of the depreciation on your home office will be "recaptured" as income when you sell your home.

Health Insurance

The percentage of health insurance expenses that a self-employed taxpayer can deduct (which was 30% in 1996) will increase gradually so that by the year 2006, if you live so long, 100% of your health insurance costs will be deductible for income tax purposes, even without itemizing. Allowable percentages were scheduled to increase anyway, but the new law permits deductions for more and at a faster rate.

Professional Education Expenses

A new tax credit with the delightfully nerdy name "Lifetime Learning Credit" may be claimed by individuals for tuition expenses to acquire or improve job skills. The credit is 20% of eligible tuition expenses, but is subject to various restrictions and limitations, including a phase-out of the tax benefit as income increases above rather moderate levels. Some related costs such as pocket protectors, slide rules, and room and board at math camp may also qualify if related to the course of instruction.

A provision barring double tax benefits says that you cannot deduct any expenses for which you claim the credit. Thus, an election to claim

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P-233MHz MMX $1139
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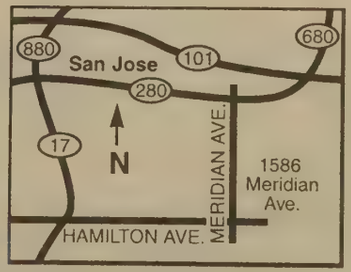

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Accounting *continued...*

the credit means that you must forego deducting the same expense.

On Schedule C, given the choice, self-employed individuals in higher tax brackets who have the option to claim tuition expenses will rarely claim the credit, because the deduction will almost always be worth more (for every $100 in expense, the 20% credit is worth $20, whereas at a 28% tax rate, the expense is worth $28). Even at the lowest tax rates, the expense deduction puts you ahead because it results in less income on which self-employment tax is paid.

If you are an employee, the rules are different. Frequently, there is little or no benefit to claiming a deduction (due to restrictions and limitations), in which case the credit is the only game in town. Those evening FORTRAN classes you've been taking at an accredited college might generate some tax benefits yet.

*A provision barring **double tax benefits** says that you cannot deduct any expenses for which you **claim the credit.***

There will be instances, however, when independent computer consultants will elect to claim the credit, because no tax benefit would otherwise be available. A special rule says that the cost of classes that qualify the taxpayer for a new trade or business are considered nondeductible personal expenses—only expenses to improve yourself in your current line of work are deductible. If you can claim the credit, that's better than nothing.

For example, in one case, an engineering graduate who resumed school after working only one year could not deduct the cost of graduate engineering studies, since working a year was not deemed sufficient to become established in that profession. In another case, the cost of business courses, including computer programming, were disallowed expenses because they weren't closely related to a taxpayer's current job duties. In situations such as these, look to the credit.

Software License

Some provisions of the new tax law are specifically targeted to the computer industry. Key among them, Congress overturned IRS regulations that had kept computer software licenses from qualifying as tax-favored export property.

The tax law provides special export sale incentives allowing a taxpayer to establish a Foreign Sales Corporation (FSC) in certain tax-haven countries. Under the FSC rules, a portion of foreign sales income would be exempt from US taxation, thus making FSCs beneficial for many businesses that sell products to foreign customers. Previously, however, income from the sale of copyrights to computer software was not eligible for exemption. In an effort to extend FSC benefits to software companies, the new rules will permit software copyrights to be treated as export property beginning in 1998.

Charitable Contributions of Hardware and Software

Although an itemized deduction is generally available for the fair market value of property contributed to a charitable organization, there are restrictions that apply to gifts of depreciated business property. Usually there is no tax advantage to donating depreciated equipment. Depreciated property is treated as if it had been "sold" at fair market value in that the taxpayer must treat earlier depreciation as if it were coming back as income—a sort of reincarnation tax.

But under a new rule, special treatment is available for contributions of computer equipment to schools that actually use the equipment in the school's education plan. In such cases, depreciation is not subject to recapture. Qualified property includes computer hardware, software, and peripheral devices.

These rules apply only to gifts of computer equipment that are made by regular "C" corporations, not individuals. A persistent theme throughout the '97 tax legislation is that Congress wasn't overly eager to help out the small guys, and the usual big campaign contributors kept Congress' largess keenly directed. (So if you are unincorporated, or if an "S" election is in effect for you, skip this section about donating computer equipment and devote the time to thinking about more profitable good deeds.)

The amount that may be deducted is equal to the donor's basis (original cost minus depreciation) in the computer equipment plus one-half of the amount of income that would have been realized had the donated equipment been sold at fair market value. The deduction, however, cannot exceed two times the taxpayer's basis. Also, the computer needs to be donated within two years of when it was purchased.

Here's an example: On January 31, 1996, NiceGuy, Inc., a C corporation, bought a laser printer for $1,700 and wrote off a nice $700 of the total cost by making a first year expense election rather than by applying a slower depreciation schedule. NiceGuy, Inc. depreciated the remainder of the cost over a five-year period using a depreciation method known as MACRS.

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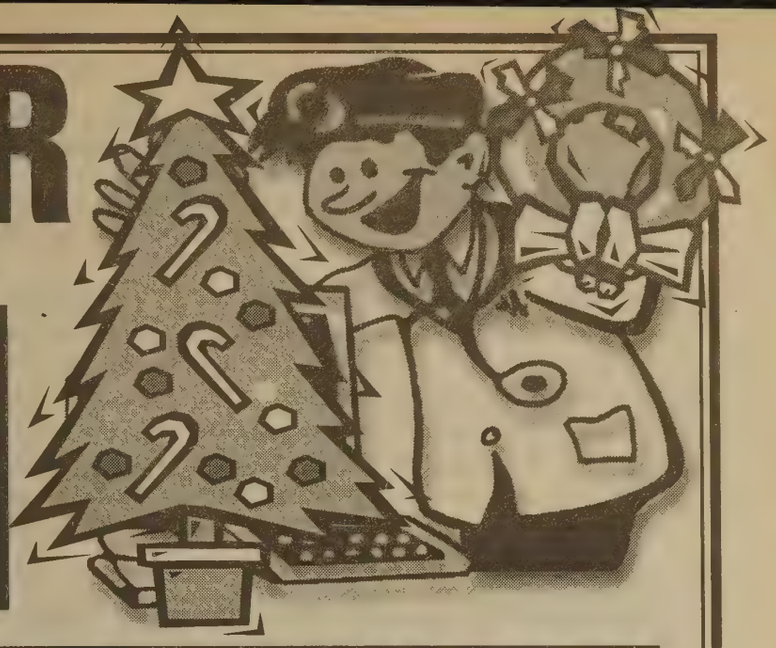

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Accounting *continued...*

On January 2, 1998, NiceGuy donated the printer to Oakland Technical High School. At that time, the printer had a fair market value of $900 and an adjusted basis of $520 ($1,700 cost minus $700 elected expenses, minus $480 total MACRS depreciation in 1996 and 1997).

Prior to the new law, NiceGuy could only deduct $520, because the contribution deduction was limited to the adjusted basis of the donated property. NiceGuy could claim the same $520 deduction without making the gift, just by keeping the printer around and continuing to depreciate it, so there would be little tax incentive to donate it.

Under the new rules, NiceGuy can deduct $710, which is its basis ($520), plus $190 (half the net income the corporation would have realized had the property been sold at fair market value: $900 - $520 = $380, half of which is $190). Because $710 is less than twice the taxpayer's adjusted basis (2 X $520), this full amount is allowed. In the end, NiceGuy will have claimed $1,890 (first year expense, plus MACRS depreciation, plus contribution deduction) for a printer costing only $1,700. Not to mention, they can deduct the additional fee for their accountant's time.

A persistent theme throughout the '97 tax legislation is that Congress wasn't overly eager to help out the small guys, and the usual big campaign contributors kept Congress' largess keenly directed.

Trivial as Congress' favors may seem, this benefit won't last forever. A sunset provision states, "This paragraph shall not apply for any contribution made during any taxable year beginning after December 31, 1999."

Capital Gains

Perhaps the most talked-about feature of the new tax legislation is the lowering of tax rates on capital gains. Congress, however, abhors simplicity. Whereas previously there was one maximum rate, 28%, on an individual's net long-term capital gains, there are now nine (see the sidebar on page 82 for a summary).

The lower capital gains rates will strongly encourage use of incentive stock options (ISO), to take advantage of the increased spread

continued on page 91

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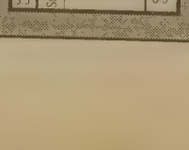

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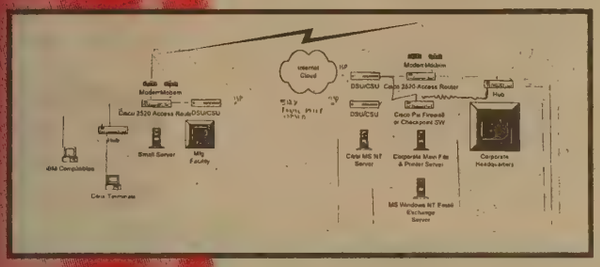

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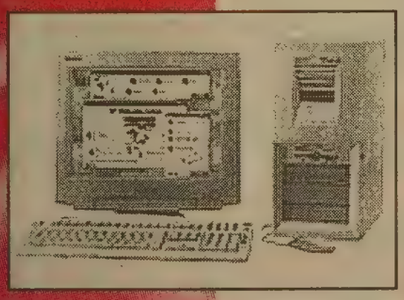

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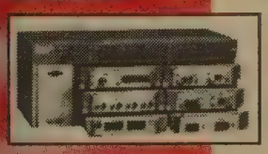

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233MHz	$2308
266MHz	$2433
300MHz	$2661

Dual Pentium II	
233MHz	$2743
266MHz	$2994
300MHz	$3449

Bundled with AGP Video card!

iMiracle

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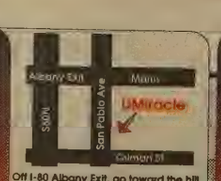
Yes! Open on Sunday!



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Fax:415-592-2915
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Fremont CA 94538
Ph:510-226-3666
Fax:510-226-6758
Yes! Open on Sunday!

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AND BE A WINNER!

Intel AL440LX Pentium II

Intel AL440LX Pentium II Motherboard - 233Mhz & above CPU support, 440LX AGPset with Accelerated Graphics Port Connector for optimal Video Graphics, Yamaha OPL4 hardware wavetable audio,3 PCI, 2 ISA/1 AGP slots, DIMM, Onbrd I/O, UltraDMA PCI IDE
Genuine Intel Pentium® II Processor w/ Cooling Fan
32MB 168Pin 10ns SDRAM DIMM w/EPROM chip
1.44MB Floppy Drive
3.2GB Quantum FireBall ST33240A UltraDMA IDE HD
Mitsumi FX162T 16X Speed Internal ATAPI IDE CD-ROM
ATI Xpert@Work AGP RAGE PRO 4MB SGRAM Video Card
17" Hitachi CM-620 .28DP 1280x1024NI Monitor
GigaStar ATX style Medium Tower 235W ATX PS
Liton SK6000 Ergonomic Win95 PS/2 Keyboard
Logitech 3-Button MouseMan PS/2 Mouse w/ Pad
Pair of 80Watt Stereo Speakers
Legitimate MS Windows NT 4.0 Workstation CD + Manual

Intel Pentium® II
233MHz $2071
266MHz $2197
300MHz $2424

Bundled with AGP Video card!

PII is here!

STRUCTURED CAPITAL MANAGEMENT
A Division of First Southwest Company

TREEHOUSE SOFTWARE CONSULTING GROUP

July 25, 1996

Tony Nguyen
Sales Representative
UMiracle Microsystems, Inc.
44063 Fremont Blvd.
Fremont, CA 94538

Tony,

I just wanted to drop you a note of appreciation for your work in delivering

Intel Providence P6²

- Intel Providence PR440FX Dual Pentium® Pro processor-based board - Intel 440FX PCISet, support Dual Pentium® Pro 200Mhz CPUs, EDO ECC 168Pin DIMM upto 512MB, Integrated LAN Controller Intel 82557 (=EtherExpress® Pro/100B), Integrated Ultra/Wide SCSI Adaptec® 7880 w/ onbrd+External mini-68Pin 16bit Wide Connectors, Integrated Audio - Crystal+Yamaha OPL3 FM Synthesizer 16bit Stereo Sound, 4 PCI+1 ISA slots, onbrd PCI Bus Master IDE interfaces, HiSpd I/O, FD, Dual ZIF Socket 8, Flash AMI PnP BIOS, ATX form Factor
- Genuine Intel Pentium® Pro Processor(s) w/Cooling Fan(s)
- 64MB = 1 x 64MB 168Pin 8Mx72 EDO ECC Buffered DIMM
- 1.44MB Floppy Drive
- 3.2GB Quantum FireBall ST33260S Ultra-SCSI-2 HD
- Mitsumi FX162T 16X Speed Internal ATAPI IDE CD-ROM
- [illegible]
- 21" Hitachi CM-800U .22DP 1600x1200NI 75Hz
- GigaStar ATX style Full Tower 235W ATX PS
- Liton SK6000 Ergonomic Win95 PS/2 Keyboard
- Logitech 3-Button MouseMan PS2 w/ Pad
- Pair of 120Watt Stereo Speakers
- Legitimate MS Windows NT 4.0 Workstation CD + Manual + installed + fully configured

	Single	Dual
180MHz/256K	$3029	$3242
200MHz/256K	$3349	$3562
200MHz/512K	$3830	$4043
200MHz/1MB	$Call	$Call

Intel DK440LX PII Dual

- Intel DK440LX Dual Pentium II Motherboard 82440LX AGPset - 233Mhz & above Dual CPU support, 440LX AGPset w/ Accelerated Graphics Port Connector for optimal Video Graphics,4 DIMM slots,Onbrd I/O,UltraDMA PCI IDE,onbrd Intel Pro10/100BT Ethernet/ Adaptec 7895 Dual Channel SCSI w/ RAIDport slot
- Intel Pentium® II 512K Processor(s) w/ Cooling Fan(s)
- 64MB 168Pin 10ns SDRAM DIMM w/EPROM chip
- 1.44MB Floppy Drive
- 3.2GB Quantum FireBall ST33260S Ultra-SCSI-2 HD
- Mitsumi FX162T 16X Speed Internal ATAPI IDE CD-ROM
- ATI Xpert@Work AGP RAGE PRO 8MB SGRAM Video Card
- 19" Hitachi CM-751MU .22DP 1600x1200NI Monitor
- Premium ATX style Full Tower 235W ATX PS
- Liton SK6000 Ergonomic Win95 Keyboard
- Logitech 3-Button MouseMan Serial Mouse w/ Pad
- Pair of 120Watt Stereo Speakers
- Legitimate MS Windows NT V4.0 Workstation CD + Manual + installed + fully configured

Single Pentium II
233MHz $3012
266MHz $3137
300MHz $3365

Dual Pentium II
233MHz $3447
266MHz $3698
300MHz $4154

Bundled with AGP Video card!

MULTIMEDIA NOTEBOOKS

NoteBook Options:		
	MS DOS V6.22 + Windows V3.11	Add $100
	MS DOS V6.22 + WFWG V3.11	Add $120
	Windows 95 CD Full OEM Version	Add $90
	Windows NT 4.0 Workstation/Server OEM	Add $145/$240

CHEM 9750 NoteBook Options

EDODIMM 16MB=8X2pc	$100
EDODIMM 32MB=16X2pc	$185
Auto Adaptor 12V	$70
AC Adaptor	$60
NiMH 2nd Battery	$80
Li-Ion 2nd Battery	$195
Battery Charger	$95
Port Duplicator	$125

Harddrive/Accessories

1.4GB 2.5" IDE Slim HD	$195
2.1GB 2.5" IDE Slim HD	$265
3.0GB 19mm IDE Slim HD	$495
PCMCIA DTK 33.6k modem	$129
PCMCIA Ethernet Comb	$85

CHEMBOOK 9750

■ P5 CPU upto 200Mhz ■ Active Screen 12.1" w/256M/13.3" w/512K ■ 16MB EDO onbrd ■ 256K PB L2 Cache ■ 1.44FD ■ 16xSpeed CDROM ■ 2MB EDO Video RAM ■ Li-ion Battery ■ 16Bit Stereo Sound ■ Video Capture Port ■ I/O ports ■ Infrared port ...

(1.4/2.1/3.0GB HD)	Active Matrix 12.1	Active Matrix 13.3
■ P5-133Mhz	$2060/$2124/$2328	$2585/$2649/$2853
■ P5-166Mhz MMX	$2095/$2159/$2362	$2620/$2684/$2887
■ P5-200Mhz MMX	$2180/$2244/$2447	$2705/$2769/$2972
■ P5-233Mhz MMX	$2280/$2344/$2547	$2805/$2869/$3072

CHEM 6800 SPECIFICATIONS

- Intel Pentium -100/120/133/166/200MHz
- Pipelined Synchronous 256K Level-2 Cache
- 12.1"/13.3"/14.1" Active Matrix Screen
- 2/4MB EDO Video RAM on PCI v2.1 Bus
- EDO Memory upto 72MB/128MB
- 800x600x16M True Colors
- 64Bit PCI bus with graphics accelerators
- SystemSoft flash BIOS with Plug & Play
- Built-in 16X CD-ROM
- 16Bit Stereo sound System
- 3 x Type II or 1 x Type II+1 x Type III (Support Zoom Video Port)
- Modem Ring in wake up on Power Mgmt
- Built-in 1MB Mask ROM hardware wavetable
- Removeable Floppy & hard drive
- Infra-red IrDA and FIR
- RCA jack for TV-Out
- Windows 95 Keyboard

FD Replaceable w/2nd Battery
Upto 72/128MB EDO memory
12.1"/13.3"/14.1" Active Color
Built-in 16x CD ROM
RCA Jack for TV Output
Lithium-Ion Battery Included

CHEM BOOK 6800

CHEMBOOK 6800 ■ P5 CPU ■ 12.1"/13.3"/14.1" Active ■ 16MB EDO 144DIMM ■ 256K Cache ■ 1.44FD ■ 16X CDROM ■ 2MB EDO Video ■ TouchPad ■ 16Bit Stereo Sound ■ RCA Jack ■ I/O ports ■ Li-ion ■ Infrared port

Active Matrix 12.1	(1.4/2.1/3.0GB)
■Pentium-166MMX	$2095/$2160/$2362
■Pentium-200MMX	$2180/$2244/$2447
■Pentium-233MMX	$2260/$2324/$2527
Upgrade to 6800XL 13.3" Active	$575
Upgrade to 6800XL 14.1" Active	$725

CHEM 6800 NoteBook Options

16MB=16x1 144Pin EDO	$95
32MB=32x1 144Pin EDO	$195
Auto Adaptor 12V	$75
AC Adaptor	$65
Li-ion Internal Battery	$175
Battery Charger	$95

Large 13.3" Active Color
Video Capture Port Built-in
Lithium-Ion Battery Included

FD Replaceable w/2nd Battery
Upto 80MB Main Memory

CHEM 9750 SPECIFICATIONS

- Intel Pentium 133/150/166/200MHz/MMX
- 13.3" TFT XGA/12.1" TFT SVGA
- 16MB Memory onbrd, expand upto 80MB
- 800x600x16M True Colors, 2MB Video RAM
- 64bit PCI bus graphics accelerator
- SystemSoft Flash BIOS with PnP
- 16X CD ROM, exchange w/FDD or Battery
- 16Bit Stereo Sound System
- Pipelined Synchronous 256K/512K Cache
- Infra-red IrDA and FIR
- Video Capture port
- Windows 95 Keyboard

CHEM BOOK 9750

CHEMBOOK 2700

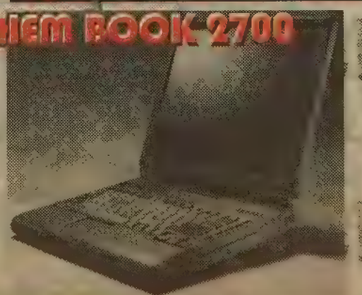
■ P5 MMX ■ TX-Chipset ■ Active 14.2" ■ 32MB EDO 144DIMM ■ 512K L2 P.B. Cache ■ 1.44FD ■ 20X CDROM ■ 2MB EDO Video ■ TouchPad ■ Full Duplex Stereo Sound ■ RCA Jack ■ I/O ports ■ Li-ion Batt

Active Matrix 14.2"	(1.4/2.1/3.0GB)
■Pentium-166MMX	$3004/$3069/$3272
■Pentium-200MMX	$3090/$3154/$3357
■Pentium-233MMX	$3170/$3234/$3437

CHEM 2700 NoteBook Options

16MB=16x1 144Pin EDO	$85
32MB=32x1 144Pin EDO	$175
Auto Adaptor 12V	$75
AC Adaptor	$80
Li-ion Internal Battery	$205
Battery Charger	$95

CHEM BOOK 2700



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What is RAID?

RAID is an acronym for Redundant Array of Inexpensive (or Independent) Disks. A RAID array is a collection of drives which collectively act as a single storage system, which can tolerate the failure of a drive without losing data, and which can operate independently of each other. Among all RAID implementations, AAA-130 series, the latest Adaptec RAID 5 solution, is the most cost-effective way to protect your data. If the data in your file server is vital to your survival of your business, RAID-5 is the way to go!

Thunder 2 Dual PII

- TYAN Thunder-2 ATX S1696DLUA Dual Pentium II 233-300 MHz System Board - 1 AGP+5 PCI+2 ISA Slots, 4 168Pin DIMM for Max 1GB, Onbrd Adaptec dual channel U-Wide SCSI with RAIDport option, Yamaha PCI Wavetavle sound, Super IO/FD/IDEs/USBs/PS2, Flash AMI BIOS
- Intel Pentium® II CPU(s) w/ Cooling Fan(s)
- 64MB 168Pin 10ns SDRAM DIMM w/ EPROM
- 1.44MB Floppy Drive
- Three 3.2GB Quantum FireBall ST33260S Ultra-SCSI-2 HDs
- Mitsumi FX162T 16X Speed Internal ATAPI IDE CD-ROM
- Trident 9680 PCI 1MB MPEG+AVI Video Card
- 14" ShamRock 1Kx768NI Pwr-Saving Monitor
- GigaStar ATX style Medium Tower 235W ATX PS
- KeyTronic 104 Key Win95 PS/2 Keyboard
- MicroSoft Ergonomic Serial Mouse w/ Pad
- Legitimate MS Windows NT V4.0 5-user Server CD + Manual + installed + fully configured

Call for AGP Video card UPGRADE!

PII is here!

Single Pentium II
233MHz $3252
266MHz $3380
300MHz $3612

Dual Pentium II
233MHz $3696
266MHz $3951
300MHz $4415

TIGER PII RAID⁵ Server

- Tyan Tiger Single ATX (S1692S) - Pentium II board, 233Mhz & above CPU support, 440LX AGPset with Accelerated Graphics Port Connector for optimal Video Graphics, 3 PCI/2 ISA/1 AGP slots, DIMM, Onbrd I/O, UltraDMA/IDE, ATX
- Adaptec AAA-131 RAID 5 Ultra-Wide Adapter with 1MB Cache onbord
- Genuine Intel Pentium® II Processor(s) w/ Cooling Fan(s)
- 32MB 168Pin 10ns SDRAM DIMM w/ EPROM
- 1.44MB Floppy Drive
- Mitsumi FX162T 16X Speed Internal ATAPI IDE CD-ROM
- Four 3.2GB Quantum FireBall ST33240S Ultra-SCSI-2 HDs
- Trident 9680 PCI 1MB MPEG+AVI Video Card
- 14" ShamRock 1Kx768NI Pwr-Saving Monitor
- GigaStar ATX style Full Tower 235W ATX PS
- KeyTronic 104 Key Win95 PS/2 Keyboard
- MicroSoft Ergonomic Serial Mouse w/ Pad

PII is here!

Pentium II
233MHz $4025
266MHz $4153
300MHz $4585

Call for AGP Video card UPGRADE!

RAID-5 AMI Quad P6

- AMI (American Megatrends, Inc) Goliath Quad Pentium® Pro Processor EISA/PCI motherboard - U.S designed & made 180/200MHz (or higher) 1/2/4 processors supported, easy processor upgrade thru CPU based board approach, 1GB memory max onboard with 168pin slots, 4 way interleave structure for max performance ECC supported; 168Pin DIMM supported, Intel 82450GX chipset, AMI Green Flash BIOS, 6 PCI + 4 EISA slots, integrated I/O w/ 1P/2S/FD/ IDEs/PS2 mouse
- Genuine Intel Pentium® Pro Processor(s) w/ Cooling Fan(s)
- 64MB=32MBx2 168Pin 4Mx72 EDO ECC Buffered DIMM
- 1.44MB Floppy Drive
- Mitsumi FX162T 16X Speed Internal ATAPI IDE CD-ROM
- DPT SmartRAID IV RAID-5 PM-3334UW/2 UWide SCSI PCI 2 channels Controller w/16MB ECC cache for protection
- Five 3.2GB Quantum FireBall ST33260S Ultra-SCSI-2 HDs
- Trident 9680 PCI 1MB MPEG+AVI Video Card
- 14" ShamRock 1Kx768NI Pwr-Saving Monitor
- Heavy-Duty Server Case Model LT-18 supporting 11 drive bays, 26"x10"x25", removable front & side doors, Lockable front door for security, "snap-in" drive mounts, swing-out feet
- 600W AT Size Turbo Power Supply special-designed for AMI Goliath with 12V/5V/3.3V DC output
- KeyTronic 104 Key Win95 PS/2 Keyboard
- MicroSoft Ergonomic Serial Mouse w/ Pad

P6 is here!

ULTRA WIDE 40MB/s Ready!!!

Intel Pentium® Pro
Dual 200MHz 256/512k
$10091/$11045
Quad 200MHz 256/512k
$13714/$15799

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NT ENHANCEMENTS

NT Guaranteed! All hardware listed below are guaranteed to be NT V4.0 compatible. We will make it right or your money back!

- **Memory**
  - *16/32/64/128MB 10ns SDRAM UnBuffered 168Pin DIMM for 430VX/TX* ..... $Call
  - *32/64/128MB 10ns SDRAM UnBuffered 168Pin DIMM w/EEPROM for 440LX* ..... $Call
  - *16/32/64/128MB 60ns DRAM ECC EDO Buffered 168Pin DIMM for 440FX* ..... $Call
- **RAID 5 Fast Ultra Wide SCSI-2 Host Adapter (for RAID-5 implementation, an IDE HD as boot drive is recommended)**
  - *DPT SmartCache IV SCSI Adapter & RAID Series/SmartRAID IV RAID Series* ..... $Call
  - *Mylex DAC960 Series Hi-Performance PCI RAID Controller with upto 3 UW SCSI channels supporting 45 HDs, upto 64MB Cache installable* ..... $Call
  - *AMI Complete MegaRAID Solution including:SCSI RAID level 0,1,3,5,10,30, and 50 PCI Disk Array Controllers/FlexRAID/Advanced Management Software/Advanced Enclosure Management/Boot-Up Configuration/Power Console/General Alert* ..... $Call
- **High Capacity Tape Drive**
  - *HP DAT SureStore 2000/5000 DAT8/DAT24/DAT24x6E Tape Drive* ..... $Call
  - *HP DAT OEM C1534A-2GB/C1536A-4GB/1599A-8GB/C1554A-24GB/C5648A-144GB* ..... $Call
  - *Seagate Scorpion 24GB Internal DDS-3 DAT Drive* $1195
  - *Seagate SDDS-DC DAT Internal Drive STD24000N 4GB/STD28000N 8GB* ..... $635/$865
  - *Seagate 32GB DAT DDS-2 Autoloader 4586NP (4 DAT Tape Support)* $1035
  - *Optional 12 Tape Magazine for above 4586NP upto 96GB (no tape)* $135
- **High End Video Card - 3D Rendering/Graphic Animation/OpenGL**
  - *Symmetric GLyder MAX/TX-16/TX-40/MP-40 3D Accelerator* ..... $Call
  - *Dynamic Pictures OpenGL Accelerator Oxygen102/202/402* ..... $Call
- **Server Chassis (T-101)/Disk Array Chassis (T-103): Dimension=13"x31"x22" w/Dual Redundancy & Hot Swappable Power Supplies** ..... **$880/$880**
  - *T-101: 12 DriveBays/Upto 2 PowerSupply 2x300W 2x4.6" Smart Fans w/ Efficient Air Flow Full Size AT Motherboard FormFactor*
  - *T-103: 16 DriveBays/Upto 2 PowerSupply 2x300W 2x4.6" Smart Fans w/ Efficient Air Flow Perfect RAID Disk-Array Sub-Chassis*

- **Server Chassis LT-18 By Axxion w/o Power Supply.....$480**
  - *Full-size AT, Baby AT, oversize AT based boards, 11 drive bays (one 3.5" and four 5.25" exposed, six 5.25" hidden bays), Twelve slots, "snap-in" drive rails, secondary cooling fans, accepts standard power supply. Dimensions: 26" x 10" x 24.5" (DxWxH),*

LT-18 by Axxion

- **Server Enclosure KS-1400 w/ Dual Redundant Hot-Swappable 300Wx2 PS.....$990**
  - *Full-size AT, Baby AT, oversize AT based boards, 14 5.25" drive bays, Twelve slots, "snap-in" drive rails, 8 cooling fans, Dimensions: 20.5" x 16.25" x 23.75" (DxWxH)*

KS-1400

- **CD-ROM Tower Subsystem Chassis**
  - *7 Plextor 20X PX-20TSI w/250W PS $1708*
  - *7 Toshiba 15X XM-3801B w/250W PS.... $1245*
  - *7 Toshiba 12X XM-5701B w/250W PS.... $980*
- **UPS Un-interrupted Power Supply**
  - *APC SmartUPS 420VS 420VA 4 minute Full 9 Minute Half load 4 outlets* $249
  - *APC SmartUPS 650VS 650VA 5 minute Full 11 Minute Half load 4 outlets* $299
  - *APC SmartUPS 1000VS 1000VA 6 minute Full 15 Minute Half load 6 outlets* $419
  - *APC SmartUPS 1400VS 1400VA 7 minute Full 19 Minute Half load 6 outlets* $549
  - *Viewsonic Opti UPS w/complete software 280/420/650/1000/1400* $112/162/254/353/469

Call for your preferred configuration and pricing today!

Compatibility Guaranteed

Windows NT 4.0 Server/Workstation

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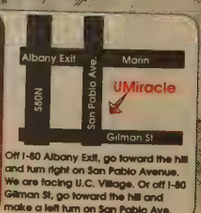

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Belmont CA 94002
Ph:415 592 3333
CLOSED ON SUNDAYS

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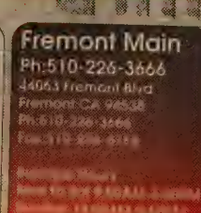
Fremont Main
Ph:510-226-3666
44063 Fremont Blvd
Fremont CA 94538
Fax:510-226-6758
Open 9:30 on Sundays!



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Motherboard without CPU, (Call for CPU Prices)

A-BIT Office Pro PX-5 Jumperless 512K TX-chipset Motherboard Pentium 75-200Mhz/Cyrix® 686-200+/AMD K5/K6 DIMM+SIMM supported, 4 PCI+4 ISA slots, onbrd PCI-IDE, HiSpd I/O, FD, Flash BIOS w/ OverClock Setting AT Form ... $102
A-BIT Office Pro AX-5, same as above but in ATX Form ... $112
ASUS TX97 Pentium® processor-based board - 430TX PCISet, Pipelined 512K onbrd, 75-200Mhz Pentium/MMX/AMD/Cyrix200+ CPUs, 4 PCI+4 ISA+1 ASUS MediaBus slots, 168Pin DIMMx3 support, onbrd Ultra-IDE, FD, HiSpd I/O, Flash Award BIOS w/NCR SCSI Suppt, AT form factor ... $145
ASUS TX97-E same as TX97, plus 72PinSIMMx4 support ... $150
ASUS TX97-X Pentium® processor-based board - 430TX PCISet, Pipelined 512K onbrd, 75-200Mhz Pentium/MMX/AMD/Cyrix200+ CPUs, 4 PCI+4 ISA slots, 168Pin DIMMx3 support, CreativeLabs VIBRA PnP Audio, onbrd Ultra-IDE, FD, HiSpd I/O, USB, Flash Award BIOS w/NCR SCSI Suppt, ATX form factor ... $185
ASUS TX97-XE same as TX97X, plus 72PinSIMMx4 support ... $185
ASUS P2L97 Intel Pentium II motherboard - 233-333Mhz support, 440LX AGPset with Accelerated Graphics Port Connector for optimal Video Graphics, 5 PCI/2 ISA/1 AGP slots,DIMM, Onbrd I/O, UltraDMA PCI IDE, ATX format ... $255
ASUS P2L97-S same as P2L97, plus onbrd Adaptec 7880 U-Wide SCSI ... $315
ASUS P2L97-DS same as P2L97, plus onbrd Adaptec 7880 U-Wide SCSI and Dual Pentium II CPU support ... $425
Intel Anchorge AN430TX Pentium MMX motherboard - Yamaha OPL4 hardware wavetable audio, 512K Cache, 430TX chpst, 3 ISA+3 PCI slots, onbrd PCI-IDE, FD, I/O, PS/2 connectors, Flash AMI BIOS, 168Pin DIMM support upto 256MB, ATX form factor ... $170
Intel Portland PD440FX Pentium II ATX Motherboard - Boxed version, 233-266MHz Supported, 440FX Chipset, 3 ISA+3 PCI Slots, 512K Cache on Pentium II CPU Cartridge, 4 72Pin SIMM Slots, Onboard Super I/O/FD/IDEs/ PnP Yamaha POL3 Integrated Audio ... $225
Intel Atlanta AL440LX Pentium II Motherboard - 233Mhz & above CPU support, 440LX AGPset with Accelerated Graphics Port Connector for optimal Video Graphics, Yamaha OPL4 hardware wavetable audio,3 PCI/2 ISA/1 AGP slots, DIMM, Onbrd I/O, UltraDMA PCI IDE, ATX format ... $260
Intel Dakota DK440LX Dual Pentium II Motherboard 824 LX AGPset - 233Mhz & above Dual CPU support, 440LX AGPset w/ Accelerated Graphics Port Conntr for Video Graphics,4 DIMM slots,Onbrd I/O,UltraDMA PCI IDE,onbrd Intel Pro10/100BT Ethernet/Adaptec 7895 Dual SCSI w/RAIDport ... $Call
• Intel Providence PR440FX Dual Pentium® Pro processor-based board - Intel 440FX PCISet, support Dual Pentium® Pro CPUs w/VRM, ECC EDO buffered 168Pin DIMM upto 512MB, Integrated LAN Controller Intel 82557 (=EtherExpress® Pro/100B), Integrated UltraWide SCSI Adaptec® 7880 w/ onbrd + External mini-68Pin Wide Connector, Integrated Audio - Crystal+Yamaha OPL3 FM Synthesizer 16bit StereoSound, 4 PCI+1 ISA slots, onbrd PCI Bus Master IDE ports,HiSpd I/O, FD, Flash AMI PnP BIOS ... $360
IWILL P55XUW PCI Pentium® processor-based ATX board w/ Built-in Adaptec® PCI SCSI chipset 7880 (AHA-2940UW UltraWide SCSI), Intel 430TX chpst, MMX/Cyrix 686 CPU support, 50Pin Fast SCSI-2 & 68Pin Ultra Wide SCSI (40MB/s Burst) with optional RAID support, Pipelined 512K Cache onbrd, 3 PCI+4 ISA slots, 72Pin SIMM & 168PIN DIMM, onbrd UltraDMA IDE ports, FD, HiSpd I/O, USB, 50+68Pin Wide SCSI + FD/HD/IO cables, Musical alarm CPU fan, PS/2 mouse port & EZ-SCSI V4.0L + Adaptec® software & manual included ... $285
TYAN Tahoe-A ATX S1684SA Pentium II 233-300 MHz System Board - 4 PCI + 4 ISA Slots, 6 72Pin SIMM for Max 512MB, Integrated Creative Labs Vibra 16 Audio, Onbrd Super IO/FD/IDEs/USBs/PS2, Flash Award BIOS (Also supports Pentium Pro CPU with optional Riser Card) ... $240
TYAN Tahoe-2 ATX S1682D Dual Pentium II 233-300 MHz System Board - 5 PCI + 3 ISA Slots, 8 72Pin SIMM for Max 512MB, Onbrd Super IO/FD/IDEs/USBs/PS2, Flash Award BIOS ... $285
Tyan Tiger Single ATX (S1692S) - Pentium II board, 233Mhz & above CPU support, 440LX AGPset with Accelerated Graphics Port Connector for optimal Video Graphics, 3 PCI/2 ISA/1 AGP slots, DIMM, Onbrd I/O, UltraDMA/IDE, ATX ... $280
Tyan Tiger Dual ATX (S1692DL) - Dual PII board, same as Tiger Single ... $320
Tyan Thunder 2 ATX (S1696DLUA) - Dual Pentium II board w/ 440LX chpst ... $Call
AMI (American Megatrends, Inc) Goliath Quad Pentium® Pro Processor EISA/PCI motherboard - U.S. designed and made 180/200MHz (or higher) 1/2/4 processors supported, easy upgrade thru CPU based board approach, 1GB memory max onboard with 168 pin slots, 4 way interleave for max performance, ECC support, 168Pin DIMM support, 82450GX chpst, AMI Flash BIOS, 6 PCI+4 EISA slots, integrated I/O w/ 1P/2S/FD/IDE, Full Size AT factor
Above w/ two 200MHz Pentium Pro 256K CPUs ... $5220
Above w/ four 200MHz Pentium Pro 256K CPUs & 2nd CPU baseboard ... $7835

CPU & Memory (Prices Subject to Change without notice)

Intel Pentium® Pro processor 256K/512K/1024K 150/180/200Mhz ... $Call
Intel Pentium® II processor 233MHz/266MHz/300MHz 512K Cache ... $Call
Pentium® P5-100/120/133/150/166/200/233MHz/MMX CPU ... $Call
AMD K5/K6/Cyrix®/IBM® 6x86-166+/200+/M2 CPU ... $Call
256/512K Synchronous Pipelined Cache COAST module ... $20/$25
72Pin SIMM - 32/36Bit-FP/EDO/Parity ... $Call
16/32/64MB 168Pin SDRAM DIMM Unbuffered 10ns for TX/440FX/LX ... $Call
32/64/128MB 168Pin SDRAM DIMM+EPROM/ECC UnBuffered 10ns 440LX .. $Call

I/O Card/Controller Card

Adaptec 2940U Ultra SCSI-2/2940UW SCSI-2 Controller ... $165/$195
Adaptec AAA-131/AAA-133 RAID 5 Ultra-Wide SCSI-2 Multi-Channel Host Adaptor w/1MB Cache onbrd ... $440/$695
Western Digital PCI-SCSI Adapter - 7193RTL, Fast SCSI-2, 10MB/s, CorelSCSI! . $80
External SCSI-2 50Pin Mini-68Pin Adapter for internal 50pin ribbon cable SCSI $20
External Wide SCSI Mini-68Pin Adapter with 3-68pin-connector internal ribbon cable for any onboard Internal 68pin Wide SCSI interface ... $45
Fast Wide SCSI-2 internal Ribbon Cable, 68Pin, 2/3 connectors ... $20/30
External SCSI Cables/Terminator Centronic/Mini/UltraDensity 50/68Pin ... $Call

Network Card

Ethernet NE2000 ISA PnP/Softset 16Bit Combo/PCI Combo ... $20/$40
Intel EtherExpress Pro 10/100 PCI ENET 32Bit 10-BT (PILA8465B) ... $60
3COM Etherlink III 3C509B Combo ... $70
3COM Etherlink XL 3C900 Parallel-Tasking PCI Combo ... $78
3COM Fast Etherlink XL 3C905-TX Parallel-Tasking 100BT PCI ... $65

Video Card

Trident 9680 Windows Accelerator PCI 1MB/2MB with MPEG and AVI Motion Video built-in ... $35/45
ATI 3D ProTurbo PC2TV SGRAM 4MB/8MB ... $135/$180
ATI All-In-Wonder 7-In-One TV, Video and Graphic multimedia PC or TV Display, TV Tuner, w/ ATI's 3D RAGE II and ImpactTV chipset 4MB ... $265
ATI Xpert@Work AGP/PCI RAGE PRO Chipset SGRAM DVD Acceleration, OpenGL Compliant, 4MB/8MB ... $180/239
ATI Xpert@Play AGP RAGE PRO Chipset SGRAM DVD Acceleration, TV Out Features, 4MB/8MB ... $192/245
ATI Xpert@Play PCI RAGE PRO Chipset SGRAM DVD Acceleration, TV Out Features, 4MB/8MB ... $180/230
Matrox MGA Millennium II WRAM PCI 4MB/8MB ... $210/$360
Memory module for Millennium II 4MB/8MB/12MB ... $145/$235/$325
Matrox MGA Mystique 220 2MB/4MB SGRAM OEM ... $89/119
Matrox MGA Millennium 3D WRAM AGP Video card ... $Call
Diamond VIPER V330 AGP(Accelerated Graphic Port) 4MB SGRAM 2D/3D NVIDIA RIVA128 Chpst 128Bit Windows Accelerator Upgradable to DVD $180
Diamond VIPER V330 PCI 4MB SGRAM 2D/3D NVIDIA RIVA128 Chpst 128Bit Windows Accelerator Upgradable to DVD ... $185
Diamond FIRE GL1000 Pro 4MB/8MB AGP SGRAM 2/3DLabs Permedia 2 Graphics Chipset ... $169/$199

Monitor

14" ShamRock 1Kx768Nix0.28DP Digital Control Pwr-Saving Monitor ... $145
15"/17" ShamRock 1280x1KNix0.28DP Monitor ... $195/$385
Hitachi NSA SuperScan Pro CM-500U 15" .28DP, 1280x1024 ... $305
Hitachi NSA SuperScan Pro CM-620U 17" .28DP, 1280x1024 ... $520
Hitachi NSA SuperScan Pro CM-751MU 19" .22DP, 1600x1200 ... $1045
Hitachi NSA SuperScan Pro CM-800U 21" .22DP, 1600x1200x75Hz ... $1355
Hitachi NSA SuperScan Elite CM-630U 17" .22DP, 1600x1280x69Hz ... $685
Hitachi NSA SuperScan Elite CM-802U 21" .22DP, 1600x1280 ... $1790
Hitachi NSA SuperScan Elite CM-803U 21" .22DP, 1800x1440 77Hz ... $1890
IIYAMA VisionMaster-17 MF-8617E 17" .26DP, Microprocessor Contrl, PnP, DPMS, MPRII, Full On-screen program, 1600x1200@69Hz ... $519
IIYAMA VisionMaster-Pro 17 MT-9017E 17" .25DP, Microprocessor Contrl, PnP, DPMS, MPRII, Full On-screen program, 1600x1200@72Hz, Trinitron Tube $610
IIYAMA VisionMaster MF-8221E 21" .22x.16DP, Microprocessor Contrl, PnP, DPMS, MPRII, Full On-screen program, 1600x1200@76Hz ... $1255
IIYAMA VisionMaster MT-9021E 21" .30x.00DP, Microprocessor Contrl, PnP, DPMS, MPRII, Full On-screen program, 1600x1200@76Hz, Trinitron Tube ... $1315
Sony 15" 100SX/100SF 17" 200SX/200SF/17SE2T .... $325/$345/$585/$63•0/$845
Sony 20" 300SFT/GDM20SE2T ... $1295/$1705
Viewsonic E641/E655/15GA/15GS/17EA/17GA/17PS/PT770/PT775/GT770/G800/G810/PT813/G810/GT800/29GA/P810/P815/etc ... $Call
Mitsubishi, NEC, ADI, Nokia ... $Call

Modem

SupraExpress 33.6K Voice Fax internal PnP ... $60
SupraExpress 56K internal PnP Fax + SpeakerPhone ... $125
USR Sportster 33.6K Faxmodem Internal/External ... $90/$140
USR Sportster 33.6K Voice Faxmodem w/Voice Internal ... $100
USR Sportster x2-56K Faxmodem Internal/External ... $150/$175
USR Sportster x2-56K Voice Faxmodem w/Voice Int./Ext ... $190/$215

Floppy Drive, Tape Backup

Floppy Drive 1.44M 3.5"/Teac 1.2M 5.25"/1.44M 3.5" ... $24/$45/27
Colorado 3.2GB T-3000 off floppy Travan w/Win95 Sftwre, w/tape ... $175
Colorado HP T4000S 8GB, 62MB/min, SCSI-2, Travan TR-4, internal, w/tape $359
Seagate 4586NP SCSI-2 DAT DDS-2 Autoloader supports 4 - 120m 4MM DAT tapes for 32GB, optional 12 tape magazine for 96GB ... $935
Optional 12 tape magazine for above ... $135
a:Drive LS-120MB Super Floppy Drive 5X1.44FD speed, read/write 1.44MB . $Call
Iomega ZIP Drive 100MB w/disk ATAPI IDE -Internal ... $120
Iomega ZIP Drive 100MB w/disk SCSI-Internal/External ... $140/$155
Iomega ZIP Drive Disks single/three/ten pack ... $15/$40/$130
Iomega Jaz Drive 1GB w/disk SCSI-Internal/External ... $289/$390
Iomega Jaz Drive Disks single/five pack ... $92/$445
Iomega Ditto TapeBackup 2GB Insider Tavan TR-1,2,3 ... $120
Iomega Ditto TapeBackup 3200 Insider 3.2GB Tavan QIC ... $195
Tape Cartridge TR-1/TR-3/TR-4/DAT ... $7/$15/$45/$Call

Keyboard/Mouse/Scanners/Joystick/Trackball/Supply/Misc

Mitsumi/KeyTronic104 Enhanced Win95 Keyboard ... $25/$30
Focus 2001 104 Win95 Key Enhanced Click w/Cover ... $35
Focus 6002 104 Win95 Key Enhanced w/ wristrest ... $30
Natural Keyboard SK-6000 Win95 Key Enhanced / with Touch Pad ... $50/$70
MicroSoft Natural Keyboard Win95 Key/Ergonomic Serial/PS 2 type Sold with System Purchase ONLY ... $70/$30/$35
Logitech 2-Button Mouse Serial/PS2 ... $12/$12
Logitech Mouseman Serial+PS 2 Combo/Cordless ... $30/$85
Logitech Trackman Marble ... $80
MS DOS 6.22/Windows V3:11/WFWG V3.11(w/System Purchase) ... $45/55/75
MS Windows 95 Full CD OEM/NT V4.0 Workstation (w/SystemPurchase) $90/$145
MS Office Professional 97 CD version (w/SystemPurchase) ... $525
MS Windows NT V4.0 Server with 5 User Access License OEM ... $590
MS Windows NT V4.0 Server 20 User Access License (No Software) ... $500
GigiStar Series Full Tower AT 250W/ATX 230W ... $115/$135
GigiStar Series Medium Tower AT 250W/ATX 230W ... $85/$90
GigiStar Series Mini Tower/DeskTop AT 230W ... $90/$95
Server Class Super Case w/250W PS w/ detachable front panel, Dual side door, solid construction, slide-in Drive Bay, Dual fans, lots of bays, Fits Full/Baby AT Size board, Medium/Full Tower ... $115/$140
Server Chassis (T-101)/Disk Array Chassis (T-103): Dimension=13"x31"x22" w/Dual Redundancy & Hot Swappable Power Supplies:
- T-101:12 DriveBays/Upto 2 PowerSupply 2x300W, 2x4.6" Smart Fans w/ Efficient, Air Flow, Full Size AT Motherboard FormFactor ... $880
- T-103: 16 DriveBays/Upto 2 PowerSupply 2x300W, 2x4.6" Smart Fans w/ Efficient Air Flow, Perfect RAID Disk-Array Sub-Chassis ... $880

Server Chassis LT-18 By Axxion w/o Power Supply - Full-size AT, Baby AT, oversize AT based boards, 11 drive bays (one 3.5" and four 5.25" exposed, six 5.25" hidden bays), Twelve slots, "snap-in" drive rails, second cooling fans, accepts standard power supply, Dims: 26" x 10" x 24.5" ... $480
Server Enclosure KS-1400 w/ Dual Redundant Hot-Swappable 300Wx2 PS, Full-size AT, Baby AT, oversize AT based boards,14-5.25" drive bays, Twelve slots, "snap-in" drive rails, 8 cooling fans, Dims: 20.5" x 16.25" x 23.75" (DxWxH) .. $990
Deluxe External SCSI Case w/Terminator+SCSI Cable+P/S+Fan 3.5" Half Height/5.25" Half Height ... $60/$90
Deluxe External SCSI Case w/68Pin Wide/Ultra Wide SCSI Connector + P/S + Fan 3.5" Half Height with 68Pin External Cable and Terminator ... $150
Power Supply PS-2 Type 230W/250W/300W ... $28/$35/$85
Power Supply ATX Type 235W/300W ... $55/$85
486/P5/P6 CPU Cooling Ball-Bearing Fan w/heat sink ... $8/$12/$25
Chassis Second Cooling Fan 3" or 3.5" ... $15
Printer Cable 6"/10"/15"/25" ... $5/7-10/16
PS/2 mouse port connector for motherboard PS/2 mouse port ... $10

CD-ROM Drive

Toshiba XM-6102B 24X Speed Internal ATAPI IDE CD ROM ... $Call
Mitsumi FX162T 16X Speed Internal ATAPI IDE CD-ROM ... $75
Mitsumi FX810T 8X Speed Internal ATAPI IDE CD-ROM ... $59
Toshiba XM-5701 12X Speed Internal SCSI CD ROM ... $105
Toshiba XM-3801B 15X Speed Internal SCSI CD ROM ... $145
Plextor 20-Plex 12/20XSpeed, 1800-3000Kb/sec, Fast SCSI2, 95ms seek, 512K Buffer, SCAM, w/Tray, PX-20TSI Internal ... $350
DVD/CD Writer/RE-Writer Internal/External ... $Call

Sound Card, Speaker, MultiMedia Package

Yamaha, Altec, Lansing Speakers ... $Call
60W/80W/120W Hi-Fi Amplified Stereo Speakers ... $15/30/55
Yamaha 3D Stereo Sound Card w/ Wavetable, Full Duplex, 16Bit ... $30
Sound Blaster 16 PnP OEM ... $55
Sound Blaster AWE64 PnP Value OEM ... $97
Sound Blaster AWE64 GOLD PnP w/ IDE interface Retail ... $180
Audio Cable - CD-ROM to Sound Card ... $3

HardDisk

Western Digital - Caviar

1.2GB IDE WDAC11200 - Enhanced IDE Mode-4 256KB 11ms 5200RPM ... $155
2.1GB IDE WDAC12100 - UltraDMA 33.3Mb/s 128KB 10ms 5200RPM ... $175
2.5GB IDE WDAC22500 - Enhanced IDE Mode-4 256KB 11ms 5200RPM ... $195
3.2GB IDE WDAC33200 - Enhanced IDE Mode-4 128KB <12ms 5200RPM ... $205
4.3GB IDE WDAC34300 - UltraDMA 33.3Mb/s 256KB 11ms 5400RPM ... $245
5.1GB IDE WDAC35100 - UltraDMA 33.3Mb/s 256KB 11ms 5400RPM ... $310
6.4GB IDE WDAC36400 - UltraDMA 33.3Mb/s 256KB 9.5ms 5400RPM ... $335
2.1GB Ultra SCSI-2 Enterprise E2170-3 512KB 7200RPM ... $390
2.1GB UltraWide SCSI-2 Enterprise E2170-7 512KB 7200RPM ... $395
4.3GB Ultra SCSI-2 Enterprise E4360-3 512KB 7200RPM ... $
4.3GB UltraWide SCSI-2 Enterprise E4360-7 512KB 7200RPM ... $
9.1GB Ultra SCSI-2 Enterprise E9100-3 512KB 7200RPM ... $
9.1GB UltraWide SCSI-2 Enterprise E9100-7 512KB 7200RPM ... $

Quantum

2.1GB FireBall ST32160A EIDE UltraDMA 10ms, 5400RPM ... $18
3.2GB FireBall ST33240A EIDE UltraDMA 10ms, 5400RPM ... $
4.3GB FireBall ST34320A EIDE UltraDMA 10ms, 5400RPM ... $
6.5GB FireBall ST36480A EIDE UltraDMA 10ms, 5400RPM ... $
2.1GB FireBall ST32160S Ultra-SCSI 10ms, 5400RPM ... $
3.2GB FireBall ST33240S Ultra-SCSI 10ms, 5400RPM ... $
4.3GB FireBall ST34320S Ultra-SCSI 10ms, 5400RPM ... $
6.5GB FireBall ST36480S Ultra-SCSI 10ms, 5400RPM ... $
4.5GB Viking VK34550N Ultra SCSI-2, 8ms, 7200RPM ... $
4.5GB Viking VK34550W Ultra Wide SCSI-2, 8ms, 7200RPM ... $
9.1GB Atlas AL39100N Ultra SCSI-2, 8ms, 7200RPM ... $
9•.1GB Atlas AL39100W Ultra Wide SCSI-2, 8ms, 7200RPM ... $

Seagate

2.26GB Barracuda 4LP ST322•72N Ultra SCSI-2 50pin 7200RPM, 512K ... $
2.26GB Barracuda 4LP ST32272W Ultra Wide SCSI-2 68pin 7200RPM, 512K .. $385
4.55GB Barracuda 4LP ST34572N Ultra SCSI-2 50pin 7200RPM, 512K ... $555
4.55GB Barracuda 4LP ST34572W Ultra Wide SCSI-2 68pin 7200RPM, 512K .. $565
9.1GB Barracuda9 ST19171N Ultra SCSI-2 50pin 7200RPM, 512K ... $995
9.1GB Barracuda9 ST19171W Ultra Wide SCSI 68pin 7200RPM, 512K ... $1025
4.55GB Cheetah AV ST34501N Ultra SCSI-2 8.5MS, 10000RPM ... $730
4.55GB Cheetah AV ST34501W UltraWide SCSI 68pin 7.5MS, 10000RPM ... $765
9.1GB Cheetah AV ST19101N Ultra SCSI-2 7.5MS, 10000RPM ... $1205
9.1GB Cheetah AV ST19101W UltraWide SCSI 7.5MS, 10000RPM ... $1225

MicroFolio

4.5GB TomaHawk 4LP 4345NS Ultra SCSI-2 50pin 7200RPM,8ms, 512K ... $455
4.5GB TomaHawk 4LP 4345WS UltraWide SCSI-2 68pin,7200RPM,8ms, 512K $465
9.1GB TomaHawk9 3391NS Ultra SCSI-2 50pin, 7200RPM, 8ms, 512K ... $965
9.1GB TomaHawk9 3391WS Ultra Wide SCSI-2 68pin, 7200RPM, 8ms, 512K .. $985

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5 + PEER2PEER NETWORK SOLUTION

- *FIVE ASUS TX97 AMD-K5 166MHz WorkStations w/Licensed Windows 95*
  (See Previous Pages for Workstation Configuration Details)
- *FIVE Intel EtherExpress 100BaseT PCI Network Interface Adapters Installed*
- *Up to 500' Catalog-5 100BaseT UTP Cabling (InWall w/ Plates - 5 Nodes)*
- *10BaseT 8-Port Hub*
- *HP LaserJet 5 Printer*
- *OnSite Windows 95 Peer to Peer Network Resources and Printer Setup*

Recommended Options:
- *100BaseT 8-Port Hub*
- *Internet Access + EMail Solution*
- *Network User + Administrator Training*
- *3 Month 8-Hour Response Service Maintainence Contract*

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10 + ONE NETWORK SOLUTION

- *TEN ASUS TX97 AMD-K5 166MHz WorkStations w/Licensed Windows 95*
- *ONE ASUS P2L97 Pentium II 266MHz AGP File Server w/25 User Licensed NT4.0 Server*
  (See Previous Pages for Workstations and Server Configuration Details)
- *ELEVEN Intel EtherExpress 100BaseT PCI Network Interface Adapters Installed*
- *HP LaserJet 5N WorkGroup Printer w/10BaseT Connection to Server*
- *3COM 3C250B-TX 12-Port 100BaseT Stackable Hub*
- *APC Smart-UPS VS420 Un-interruptable Power Supply w/ Setup*
- *Up to 1100' Catalog5 100BaseT UTP Cabling (InWall w/ Plates - 11 Nodes)*
- *OnSite Windows NT WorkGroup Network Resources and Printer Setup*

Recommended Options:
- *Internet Acces + EMail Solution*
- *3 KeyStroke Recovery Backup Solution*
- *Fax Server Solution*
- *Network User + Administrator Training*
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20 + ONE NETWORK SOLUTION

- *TWENTY Intel Anchorage w/Audio Pentium 166MMX WorkStations w/Licensed Windows 95*
- *ONE Intel Providence PentiumPro File Server w/ One PentiumPro 180MHz CPU w/25 User Licensed NT4.0 Server with Dual 100BaseT PCI NICs each connected to 100BaseT hub for double thoroughput*
  (See Previous Pages for Workstations and Server Configuration Details)
- *TWENTY-TWO Intel EtherExpress 100BaseT PCL Network Interface Adapters Installed*
- *ONE HP LaserJet 5M WorkGroup Printer w/10BaseT Connection to Server*
- *TWO 3COM 3C250B-TX 12-Port 100BaseT Stackable Hub*
- *APC Smart-UPS VS650 Un-interruptable Power Supply w/ Setup*
- *Up to 2100' Cat5 100BaseT UTP Cabling (InWall w/ Plates - 21 Nodes)*
- *OnSite Windows NT WorkGroup Network Printer and Resources Setup*

Recommended Options:
- *Internet Acces + EMail Solution*
- *3 KeyStroke Recovery Backup Solution*
- *Fax Server Solution*
- *Network User + Administrator Training*
- *6 Month 8-Hour Response Service Maintainence Contract*

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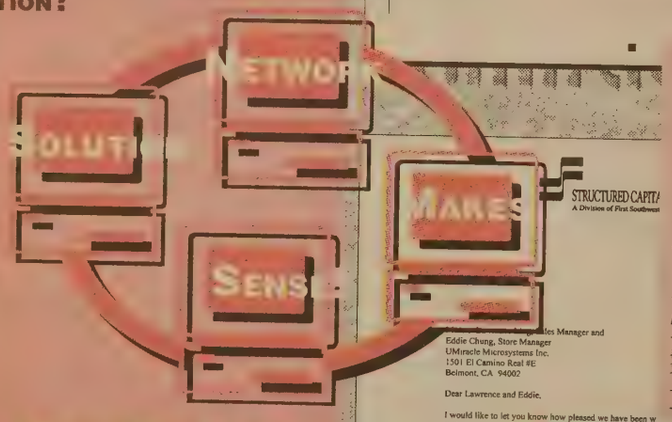

40 + ONE NETWORK SOLUTION

- *FORTY Intel Anchorage w/Audio Pentium 166MMX WorkStations w/Licensed Windows 95*
- *One Tiger PII RAID-5 266MHz File Server w/45 User Licensed NT4.0 Server with Adaptec ANA-6940 Quad 100BaseT Port PCI Adapter for quadruple thoroughput*
  (See Previous Pages for Workstations and Server Configuration Details)
- *FORTY Intel EtherExpress 100BaseT PCI Network Interface Adapters Installed*
- *ONE HP LaserJet 5SiMX Departmental Printer w/10BaseT Connection to Server*
- *FOUR 3COM 3C250 12-Port 100BaseT Stackable Hubs*
- *APC Smart-UPS VS1000 Un-interruptable Power Supply w/ Setup*
- *Up to 4100' Catalog5 100BaseT UTP Cabling (InWall w/ Plates - 41 Nodes plus Wiring Rack)*
- *OnSite Windows NT WorkGroup Network Printer & Resources Setup*

Recommended Options:
- *Internet Acces + EMail Solution*
- *3 KeyStroke Recovery Backup Solution*
- *Fax Server Solution*
- *Network User + Administrator Training*
- *12 Month 8-Hour Response Service Maintainence Contract*

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Accounting *continued from page 84*

between ordinary income rates and capital gains rates. But I've seen many technical workers, especially in option-happy Silicon Valley, disqualify their ISOs by not holding the stock for the required holding period. Employees who take the money and run, without waiting for the ISOs to ripen, pay a premium for their impatience.

Sale Of Software Patents

Software developers sometimes claim favorable capital gains treatment (i.e., a lower tax rate) when they sell all substantial rights to software they developed. This is done under a tax rule governing sale or exchange of patent rights, including software patents. It isn't necessary for a patent to have actually been issued, as long as a patent for the rights that are sold could be obtained if applied for. The benefits of this provision are available only to individuals, not to corporations.

Under this rule, the sale of a patent is treated as if the patent were held for "more than 12 months," regardless of how long the seller actually held it. The new legislation, however, increased the holding period to qualify for long-term capital gains rates from "more than 12 months" to "more than 18 months."

In the past, when the long-term capital gain holding period was changed, the rule for sale of patents was amended to reflect the new holding period requirements. This time, however, the rule for sale of patents was not updated.

As a minimum, then, a sale under this rule qualifies for the new mid-term capital gains rates for assets held between 12 and 18 months. If the seller actually held the rights for more than 18 months, it appears that the long-term capital gains rates should apply.

Small businesses and the self-employed, including technology firms and computer industry professionals, have undoubtedly gained from the new tax legislation. The new rules, however, may be difficult to assimilate because of their complexity and many restrictions. The long-term reaction of those who should benefit may well be frustration and confusion, so enjoy what roses you can sniff out now. ■

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The following is available free of charge from David Simon's office at (510)893-5753.

1997 Income Tax Organizer (available for individuals, partnerships, corporations, or trusts)

Brian Greenstein, "The Taxpayer Relief Act of 1997—Provisions Affecting Individuals," *Journal of Taxation* (Nov. 1997)

RESOURCES:

The Taxpayer Relief Act of 1997
(TRA 97; Pub. L. 105-34, Aug. 5, 1997)

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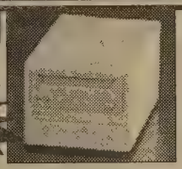

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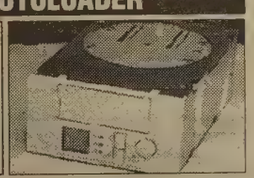

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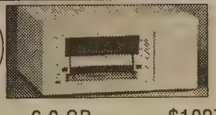

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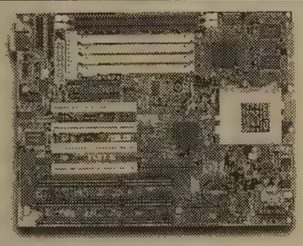

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Intel MMX	$278	$359	$434
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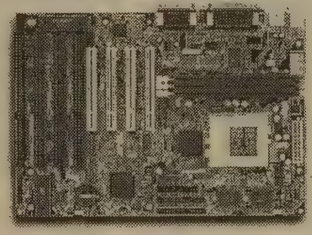

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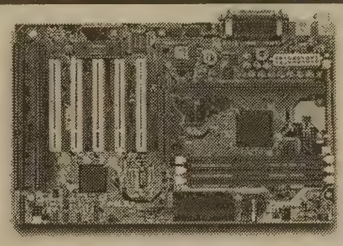

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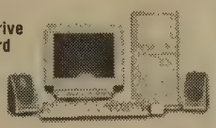

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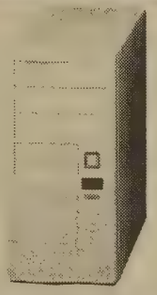

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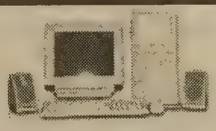

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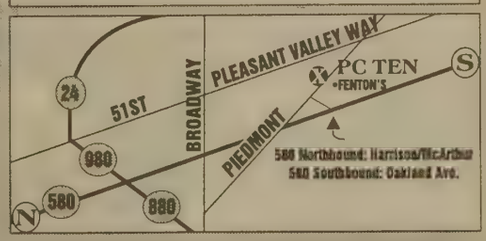

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- 16MB RAM Pentium® II & Pentium® Pro
- 8MB RAM Expandable
- IDE 2FD/4HD Controller
- 101-Key Keytronic Keyboard
- Teac 1.44MB Floppy Drive
- 1 Parallel, 2 Serial Ports
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w/ 16X SPEED CD ROM

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- 16 MB RAM
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- Sound Blaster 16 OEM Soundcard
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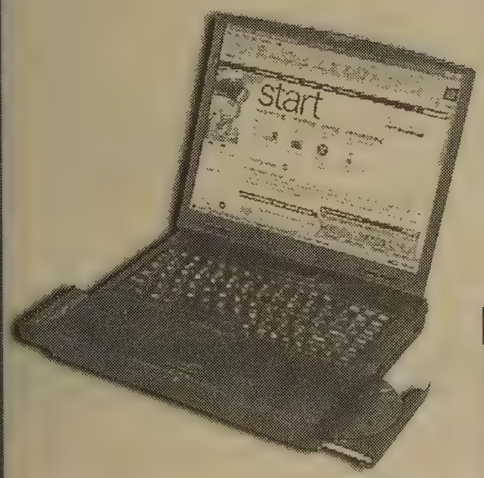

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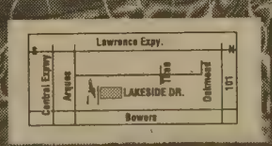

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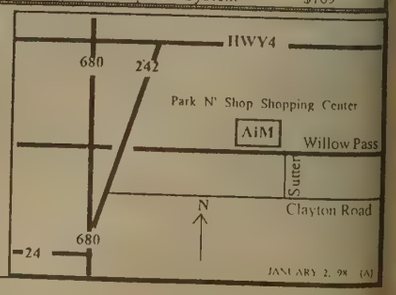
** Limited warranty, see store for detail
# After Rebate Price



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Crystal 16 bit sc on MB
Toshiba 24X EIDE CD ROM
180W Stereo Speakers
Microsoft PS2 Mouse & Pad
Intel etherexpress 10/100 on MB
US Robotics 56K W/voice Fa

(Monitor Not Included)

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Pentium II® 233 $2140

SUPERIOR PERFORMANCE

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64 MB SDRAM
Matrox Mystique 220 w/ 4MB
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104 Keytronics KB w/ WIN 95 Key
Viewsonic G773 monitor
Creative Labs AWE 64 SC
Toshiba 24x EIDE CDROM
33.6 US Robotics Fax modem w/voice
180W Stereo Speakers
Microsoft PS2 Mouse & Pad

Pentium® 233MMX $1800
Pentium® 200MMX $1720
Pentium® 166MMX 1626
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ULTIMATE PROFESSIONAL

Intel Anchorage AN430TX chipset, supports Ultra DMA
512K Pipelined Burst Cache
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16MB SDRAM DIM
Diamond 3D 2000 w/ 4MB EDO RAM
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2.1 GB Ultra DMA HD
1.44 TEAC FD
ATX Medium Tower Case
104 Mitsumi KB w/WIN 95 Key
Yamaha MF701 16 bit stereo SC
Toshiba 24X EIDE CD ROM
180W Stereo Speakers
Microsoft PS2 Mouse & Pad
MGC 15" NI (1280x1024, .28dp)

Pentium® 233MMX $1085
Pentium® 200MMX 1003
Pentium® 166MMX 909
Pentium® 150 887

MMX INTELLIGENT POWER

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Matrox Mystique 220 w/ 4MB
3.2 GB Quantum Ultra Eide
1.44 TEAC FD
ATX Medium Tower Case
104 Keytronics KB w/ WIN 95 Key
MGC 1785 17" monitor
Creative Labs AWE 64 SC
Toshiba 24x EIDE CDROM
33.6 US Robotics Fax modem w/voice
180W Stereo Speakers
Microsoft PS2 Mouse & Pad

Pentium® 233MMX 1607
Pentium® 200MMX 1525
Pentium® 166MMX 1434
AMD K6 233 1539
AMD K6 200 1487
AMDK6 166 1440

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3.2 GB Quantum Ultra Eide
1.44 TEAC FD
ATX Medium Tower Case
104 Keytronics KB w/ WIN 95 Key
Viewsonic G773 17" Monitor
Yamaha OPL4 16 Bit SC
Toshiba 24X EIDE CD ROM
56K US Robotics Fax modem w/voice
180W Stereo Speakers
Microsoft PS2 Mouse & Pad

Pentium®233MMX $1717
Pentium®200MMX 1637
Pentium® 166MMX 1546
Pentium®200 1582
Pentium®166 1530
Pentium®150 1520

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Diamond Viper 330 AGP 4MB
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ATX Medium Tower Case
Keytronics PS2 keyboard
Microsoft PS Mouse & Pad
MGC 1785 17" Monitor
US Robotics 56K Faxmodem w/ voice
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104 Mitsumi KB w/ WIN 95 Key
Microsoft PS Mouse & Pad
MGC 15" NI (1280x1024, .28dp)
SoundBlaster64AWE&180W
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***SATELLITE PRO 460CDT**
166Mhz MMX, 2.0GB, 10X, 32MB Edo, 12.1" TFT, 28.8 FaX
$3240

***TECRA 520CDT**
166MMX, 2.02GB, 10X, 32MB EDO, 12.1"
$3620

***TECRA 730XCDT**
150MHZ MMX, 2.02GB, 10X, 16MB EDO, 12.1" TFT, 28.8 FaxModem
$3030

HITACHI

***VISIONBOOK PRO**
233MMX, 32MB, 3.2GB, 56K, 20X, 13.3" TFT
$4399

***VISIONBOOK PLUS**
166MMX, 16MB, 2.1GB, 33.6, 10X 12.1" TFT
$2266

***VISIONBOOK ELITE**
166MMx, 16MB, 2.1GB, 10X, 13.3" TFT
$3465

MULTIMEDIA

❖CREATIVE LABS

SoundBlaster AWE64 Gold Oem	165
SoundBlaster AWE64 GOLD Ret	180
SoundBlaster AWE64 oem	82
❖TOSHIBA	
32X IDE/24X SCSI	105/130
24X EIDE/12X SCSI	80/110
❖TEAC 32X IDE	105
❖MITSUMI 8x	65
❖PLEXTOR	
20X w/tray SCSI Int.	205
❖CD Writer	
Yamaha 4X6 Int OEM SCSI	470
Yamaha 6X4X2 oem Rewrt	580
Mitsumi 2X6 IDE /SCSI	310/490
Sony 2X6 Int Retail SCSI	365
Sony 2X8 Int. Retail IDE	312
❖DVD	
Creative Labs Encore DXR-2	315
Toshiba DVD kit	295

FAX MODEMS

❖SUPRA

56K Int w/voice oem	95

❖US ROBOTICS Sportster

33.6 w/voice Int. oem	99
33.6 w/voice&Spkphne Int/Ext	160/175
56K Int. vo oem / 56K Ext Ret	143/199
56K w/voice Int./Ext Ret	199/220

KEYBOARDS

Mitsumi 104 w/win95 key	15
Maxiswitch/Keytronics	20/23
Focus 2001/7200	28/30
Focus 8200/9200	43/45
Lite-on Touch Pad	50
Microsoft Natural OEM w/s	53

MB & CPU'S

Intel Dakota Dual Pen II 300/512k	$2030
Intel Dakota Dual Pen II 266/512k	$1536
Asus P2L97-SLX440+Pen II 300/512k	$999
Asus P2L97-LX440+Pen II 300/512k	$930
Asus P2L97-LX440+Pen II 266/512k	$693
Intel Atlanta AL440LX+Pen II 300/512k	$930
Intel Atlanta AL440LX+Pen II 266/512k	$693
Intel Atlanta AL440LX+Pen II 233/512k	$550
Venus MB+Pentium Pro 200Mhz/256K	$580
Anchorage/512k+Pentium 233MMX	$466
Anchorage/512k+Pentium 200MMX	$380
Anchorage/512k+Pentium 166MMX	$287
Anchorage/512k+Pentium 200Mhz	$326
Anchorage/512k+Pentium 166Mhz	$275
Anchorage/512k+Pentium 150Mhz	$265
Asus SP97V/512k+Pentium 233MMX	$382
Asus SP97V/512k+Pentium 200MMX	$295
Asus SP97V/512k+Pentium 166MMX	$199
Asus SP97V/512k+Pentium 200Mhz	$235
Asus SP97V/512k+Pentium 150 Mhz	$172
Asus TX97/512K+Pentium 233MMX	$450
Asus TX97/512K+Pentium 200MMX	$366
Asus TX97/512K+Pentium 166MMX	$272
Asus TX97/512k+AMD K6 233MMX	$380
Asus TX97/512k+AMD K6 200MMX	$327
Asus TX97/512k+AMD K6 166MMX	$279

VIDEO CARDS

❖TRIDENT

512k/ 1MB ISA/1MB PCI	24/33/30

❖DIAMOND

Stealth 3-D 2mb/4mb EDO	60/83
Monster 3-D w/4mb Dram	155
3D 3000 2MB/4MB VR	110/150
FireGL1000ProAGPw/4m/8	165/195
Viper 330 AGP 4mb/8mb	172/206

❖SPIDER

Tarantula 64 MK II 2MB VR	50
Tarantula 3-D 4MB EDO	50

❖MATROX

Millenium II 4MB WR oe/re	185/210
Millenium II 8MB WR oe/re	250/275
Millenium AGP 4MB WR oem	186
Mystique 220 4MB oem/ret	130/145

❖ATI

3D ProturboPC2TV 4MB/8MB	135/175
All-In-Wonder 2MB/4MB	165/180
XPERT@PLAY AGP 4MB/8MB	180/220
XPERT@WORK AGP 4MB/8MB	163/210

MONITORS

❖NANAO

EIZO FX-B5/TX-C7S	489/958
TX-D7S(20")	1620
EIZO FX-C5/FX-C6	697/780
FX-E7 / FX-E8	1208/1330

❖NEC

P750(17".25dp)/M700	756/730
E500/E700/M500	370/642/365
E1100(21")/P1150(21")	1218/1340

❖MAG

DJ800(19") / DX715T	765/615
DJ530 / DJ700	255/465
DX15T / DX700T (.25DP)	305/545
JV2720 / DJ702E	425/445
Princeton EO 50 / EO70	250/420
Princeton EO 90 (19" .26)	770

❖SONY

100ES / 17SE2 T	330/825
200GS/200ES	645/584
20SE2T/300SFT (20")	1485/1159

❖HITACHI

CM500U/CM620U	290/485
CM800U(20")/CM-630	1329/560
CM-751 / CM802U	965/1423

❖VIEWSONIC

E641 (14") /PT775	195/672
P815(21")/ E655	1400/278
15GS/15GA	305/330
17GA/G771	545/510
G773 / P775	515/590
17PS/E771	590/447
G800 / G810	974/1180
GT770/GT775	580/590
PT770/PT 813	605/1340

❖NOKIA

447ZA 27"/447XI	560/623
445XI (21") /445XPro	1340/1460

❖IIYAMA

MT-9017E/MF-8617E	630/560

❖MGC

NI 14" Monitor 0.28	150
NI 15" .28 Digital Control	199
NI 17" Monitor 0.28	415
NI 1785 1600X1200 0.26	465

❖COLORADO

T-3000 3.2GB/T4000 8GB	167/345
Iomega Zip 100 IDE Int. bulk	105
Iomega Zip 100 Parrallel	150
Iomega Jazz 1.0GB SCSI Int.	285
Iomega Jazz 1.0GB SCSI Ext	375
HP DAT 4-8GB oem	740

❖TEAC

Floppy Drive 1.44	23
OR-technology LS-120	140

HARD DRIVES

❖FUJITSU

2.6 GB EIDE(M3026DMA)	170
4.3 GB EIDE(M3043DMA)	216
5.2 GB EIDE(M3052DMA)	247
6.4 GB EIDE(M3264DMA)	300

❖QUANTUM

3.2 GB EIDE(ST33240A)	183
4.3 GB EIDE(ST34320A)	228
6.4 GB EIDE(ST36480A)	311
8.4 GB EIDE(SE38400)	395
2.1 GB UL SCSI(ST32160S)	228
3.2 GB UL SCSI(ST33260S)	275

❖WESTERN DIGITAL

3.2 GB EIDE(AC23200)	192
4.3 GB EIDE(AC34300)	238
5.1 GB EIDE(AC35100)	265
6.4 GB EIDE(AC36400)	290
4.3GB UW SCSI (E4360-007)	535
4.3GB UL SCSI (E4360-003)	515

❖SEAGATE

2.1 GB EIDE(ST32122A)	160
2.1GB UW SCSI (ST32272W)	345
4.5GB UW SCSI (ST34572W)	526

❖MAXTOR

4.3 GB ULTRA DMA	207
5.2 GB ULTRA DMA	234
6.4GB ULTRA DMA	292
8.4GB ULTRA DMA	339

❖IBM

2.1GB UW SCSI (AS32160W)	225
4.3GB UW SCSI (AS34330W)	300

CONTROLLERS

❖ADAPTEC

Adap. PCI 2940AU OEM w/SW	175
Adap. PCI 2940UWw/SWOEM	194

CASES

Baby AT Case w/ 230W	39
Mini Tower case w/230W	30
Medium Tower case 230W	48
ATX Desktop case	65
ATX Medium case	70
ATX Full Tower case	99

SOFTWARE

MS Win NT 4.0 WS w/sys	145
MS Win NT 4.0 Server w/sys	450
Office Standard Win 97 w/sys	155
Office Pro for Win 97 w/sys	195

MICE

MS mouse serial/bus w/sys	23/48
MS IntelliMouse w/sys	37
Logitech Mouseman/Trackman	23/40
Logitech Marble Trackman	50

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MOTHERBOARDS

Intel IPLT430TX (Loan Tree).....$170
Intel IPL440LX (Atlanta).....$190
RSLR TRI IN M/B.....$72
Shuttle TX Chip M/B.....$97

MEMORY

4X32 EDO.....$32
8X32 EDO.....$66
32 MB SDRAM 10NS.....$77

HARD DRIVES

Seagate 1.7 Gb IDE.....$115
Seagate 2.0 Gb SCSI ST32272N/W.....$310/330
Seagate 4.0 Gb SCSI/SCSI WIDE.....$480/500

CONTROLLER CARDS

Adaptec 2940 Ultra Card.....$165
Adaptec 2940 Ultra Wide Card.....$186

GRAPHIC CARDS

#9 Imagine series II 4MB VRAM AGP/PCI.....$175
#9 Imagine series II 8MB VRAM AGP/PCI.....$455
Matrox Mystique 220 4MB Retail.....$118
Matrox Millenium II 4MB Retail.....$210
Matrox Millenium II 8MB Retail.....$268
PCI VGA Trident 9680 2MB.....$25.25

MONITORS

Impression 14" SVGA NI.....$152
Impression 15" SVGA NI.....$223
Impression 17" SVGA NI.....$412
ViewSonic P-810 21".....$1225

NETWORKING

3COM 10/100 PCI 10 BT Ethernet Card.....$56.50
NE 2000CTE + Comp ISA Combo PNP.....$17
Hub 8 Port Lan Prof. +1 BNC.....$56
Hub 16 Port Lan Prof. +1 BNC/AUI.....$165

CASES

Medium Tower ATX w/235W PS.....$60
Roadrunner (Med.) AT w/ 230W PS.....$50
Full Tower ATX.....$112

FLOPPY DRIVE

TEAC 1.44 MB.....$18.25
Mitsumi 1.44 MB.....$15.90

KEYBOARD

Mitsumi 104 Key.....$10.75
Keytronics 104K PS2.....$18.25

MOUSE

Microsoft Serial Mouse.....$20.50
Microsoft Intellimouse.....$49.25

MULTIMEDIA

Toshiba 32X IDE CD ROM.....$99
Soundblaster 16 OEM.....$40

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Intel PD440FX MB, w/ Sound, Pentium II 300MHz, Fan, 32MB SDRAM, 1.7GB IDE HDRV, Medium Tower ATX w/ 235W ATX PS, TEAC 1.44 Floppy Dr., Matrox Millen. II 4MB WRAM

Super Buy @ $800
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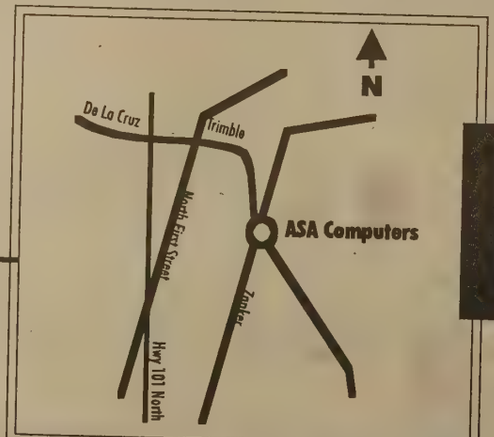

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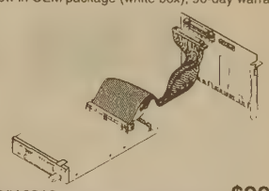

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- MPU 401 MIDI, Soundblaster compat., SRS 3-D circuitry
- Internal SCSI-2 CD-ROM port, microphone jack (mike not included), line-in & speaker jacks, joystick port
- Includes driver disks, instruction sheet
- OEM package (no box), 90-day HSC warranty
- We had these and ran out...New stock at Lower Price!

HSC#17035 **$29.95**

MediaVision ProZonic Sound Card

- IDE interface for CD/ROM drive
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- New in OEM package (no box), 90-day HSC warranty
- Includes driver disks, photocopied book

HSC#17028 **$13.95**

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HSC#17059 **$19.95**

Media Vision PCMCIA Sound!

- Great for Portables, Laptops with PCMCIA Slot
- External pod has joystick port, mic. input, line in & line out jacks, volume control.
- Installation software, instructions included
- Windows 3.x, Windows 95 compatible
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- Suncom FX-2000, new in box, unbelievable value!
- Form fitting joysticks work with either hand
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- New in box - 30 day warranty
- Hurry, they went fast last time we had them!

HSC#17008 Suncom FX-2000 Joystick **$4.95**

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- Plantronics stereo headset with mini boom-microphone
- New in box, lists for over $100!
- High quality units for long-term use
- Handy for office or home
- Dual mini stereo plugs connect to many sound cards, etc.
- Hurry, these won't last long!

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- Used Wavetek 182 Function Generator
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- Not test bench should be without one!
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- Privacy at the push of a button -- SecureTalk by GRE!
- Advanced circuitry encrypts telephone conversations from casual eavesdropping, including scanners!
- Small, portable units operate off AC adapter (Land-line model) or cigarette lighter plug (Cellular model).
- Measures 7" x 4" x 1.5", operates on 9 -12 VDC
- Provides a choice of 32 different scrambling codes over 4 channels. Can be bypassed by pressing "Normal" button.
- Sold in pairs, choose AC operation, mobile, or one of each.
- Unit inserts between handset and base of phone (Note, will not work with slim-line or other all-in-one-piece phones!)
- Unit has DB-9 connectors, includes kit of parts to fabricate an adapter cable set (DB-9 male & female to mini-modular connectors, diagram provided) or provide your own parts and save $5
- Both styles are identical except for power adapter and one jumper.
- Units are new in box, 90-day warranty - exchange

HSC# 16909 Land-Line model, HSC# 16910 Cellular model

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- Uses proprietary chipset (Alliance Semi ProMotion 6410)
- Resolutions up to 800 x 600, 64K colors with 1MB
- Up to 1600 x 1200, 256 colors, 800 x 600, 16M colors (requires 2MB) -- Upgrade chipset available, $7.50
- Supports MPEG, AVI, and other full-motion video formats
- Up to 30 fps full-screen video playback possible (requires 90MHz or better Pentium)
- Win95, NT & 3.1 drivers and full manual on CD-ROM
- If you can not read CD's, diskettes are available, $2 extra
- New in box and have a 90-day HSC Warranty

HSC#16807 **Now--Lower Price! $19.95**

House that Equipment!

- Bargain on used, knee high 19" rack cabinets!
- 29.5" tall, with room for 21" of vertical instrument height
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- Made by AMCO Engineering
- Units are used, but in good shape
- Best if you pick up (cannot go UPS)
- Last time we had these at $149.00, and they went fast! Quantity discounts available.

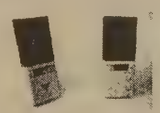
HSC# 17069 **$99.00**

Super Sounding Speakers!

Tired of the cheesy sound coming from those give-away speakers in your multimedia kit? Try upgrading to these sonic wonders...you'll have to hear them to appreciate the difference these will make without blowing your budget!

GNT2500 2-way Bass-Reflex speakers

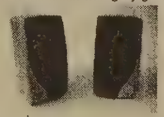
- 3.5" woofer, 1" piezo tweeter
- 15W built-in amplifiers, 80W peak, 5.4W RMS
- 40 - 20,000 Hz, built-in SRS 3-D stereo
- Measure approx. 3.75" x 6.125" x 9.25" tall
- AC adaptor, audio cables included
- On-off switch, 3-D switch, tone & volume controls
- Attractive off-white finish with grey grille-cloth



HSC#16670 **$29.95**

GNT3000 3-way Bass-Reflex speakers

- 4" woofer, 2" midrange, 1" piezo tweeter
- 23W built-in amplifiers, 120W peak, 20W RMS
- 20 - 20,000 Hz, similar to GNT3500, but no SRS 3-D
- Measure approx. 6.25" x 6.5" x 9.75" tall
- AC adaptor, audio cables included
- On-off switch, bass, treble & volume controls
- Attractive off-white finish with grey grille-cloth



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SCSI Device Cases

16559 16575 16960

Useful cases for your computer when you run out of drive room in your main case! These will accommodate many types of SCSI drives, from CD-ROM, hard disk, tape, ZIP, etc

- Upright Case, 3.5" x 5.5" x 8.125", has front opening for 3.5" drive, 20 watt power supply, no fan

HSC#16559 **$24.95**

- Deluxe quality case, 7" x 4.5" x 10.75", made for Olympus Optical, has 5.25" open front bay, SCSI diagnostic indicator on rear panel, 30 watt fan-cooled power supply, IEC power cord included. Assembled in USA.

HSC#16575 **$49.95**

- Small horizontal case, 6.5" x 2" x 8.5", for 3.5" drives, small 17 watt fan-cooled power supply (5V @ 1A, 12V @ 1A)

HSC#16960 **$37.95**

All cases are new, and feature 50-pin Centronics-style daisy-chain connectors, internal 50-pin cable and SCSI ID switch.

Skinny SCSI 2X CD-ROM!

- 1" high SCSI 2x (double speed) CD-ROM drive by Toshiba
- Model Number XM-4101B made for Sun Microsystems
- Mounts in regular 5.25" drive bay (with a gap at top of bezel)
- Lavender colored faceplate -- made for laptop computer?
- Meets MPC-2 level specifications, rugged high quality drive!
- Standard SCSI interface, with drive select jumpers on rear
- New, in plain white box, 90-day warranty

HSC#16870 **$29.95**

Absolute Last of the Red Hot Reno!

- Now at clearance price -- Media Vision ***Reno***:
  - Consists of new external Reno CD/ROM drive,docking bay with SCSI2 port, AC Adapter, cable kit, travel pouch, headphones
  - Late Model version Uses AC adaptor (included) or AA alkaline batteries (not included)
  - Double-speed 180mS drive is lightning fast!
  - Drive detaches from docking bay, use with headphones as a portable personal audio CD player
  - Great for Mac or IBM (adaptor bracket included)
  - Mac software included
  - SCSI Controller & software required for IBM use
  - Brand new, 90-day warranty

A.

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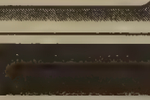

Available Separately:
A. Macintosh Powerbook SCSI Adapter (HDI-30 to 25-pin D connector) **HSC#15704 $12.50** if purchased alone, or with purchase of Reno Kit,**$5.00**

Bargain Game Controller!

- Quickshot QS-191 Game pad for IBM Compatibles
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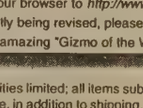

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BY ROYAL P. FARROS

The Making Of An Internet Startup—Part XV

On Vacation! The Internet Entrepreneur In Africa

Africa. That's where I am. A continent that's got a lot more to worry about than modem connections.

But here I am... on that vacation that you take just before you start having kids. I know I'm interrupting the third part in my venture capital series, but the temptation to write about how a land like Africa is coping with technology—and what it thinks about the Internet—is too great. Think about my column as being "on vacation" this month... if you decide to read on, you can come along for the ride.

Right before my wife and I left, iPrint actually received an email from an African entrepreneur wanting to set up a world wide business cooperative for local Kenyan business people. It's been chronicled a thousand times before, but it's always an eye-opening realization: When you do business on the Internet, you're really doing business worldwide.

Report From Africa

Africa conjures up so much imagery. Wild animals. Immense resources. Abject poverty.

So what's the first thing I see as our car pulls away from the Johannesburg International Airport Terminal? A giant billboard exclaiming "www.DIGITAL.com." Even I didn't expect that! Ah, this is where Digital has been hiding all these years. (OK, that was a cheap shot, but DEC Rainbow users have a looong memory.)

Everyone is excited about the Internet in Africa, but as in the United States, only a portion of the population has used the Internet. Disclaimer: when I say "everyone," I mean "people involved in the tourist trade." By definition, these are individuals who have a job and some education, and aren't (actively) involved in a war. It's frightening to think how small this minority is. For example, Johannesburg, one of the most advanced and educated cities in all of Africa, carries a debilitating 50% unemployment burden.

I can't even imagine what the unemployment rate is in Mozambique, reputed to be the poorest country on earth. I'm sure such a Western metric doesn't even apply.

Like the wild flower that it is, the Internet persists, even thrives, even in Africa. It has forced its way into small parts of African society, in part bescause it's a grand and sane connection to the rest of the world, but also to solve an everyday practical problem.

Because of constant political upheaval, Africa is a continent in constant turmoil. It's ridiculous to even consider enacting and nurturing a national technology policy when, seemingly, everyone's killing everyone. The meaning of "progress" takes odd forms. Repairing potholes in the road now means posting "Warning: Pothole" signs. If you're lucky enough to have a job that has medical insurance, you can now go to the witch doctor of your choice. Really.

I had nightmares about how I would stay connected to iPrint in Africa. I imagined I would have to splice into some random rotary phone using an old Coke can wrapped in copper wire as a modem and cranking a rusty generator in 107 degree heat with my back to a pride of lions protecting a fresh kill and swatting tse tse flys.

In truth, it's a piece-o'-cake to stay connected. Like the wild flower that it is, the Internet persists, even thrives, even in Africa. It has forced its way into small parts of African society, in part because it's a grand and sane connection to the rest of the world, but also to solve an everyday practical problem: Business people in Africa consider electronic mail to be ten times more reliable than postal mail—with or without encryption.

I'm lucky enough to see this firsthand. "Sure we're connected. We love email. We love the Internet." It's the same message at each animal game reserve. I can't remember when an iPrint demo was viewed with such genuine enthusiasm than one I gave the other day. (In fact, I know I was the only one to think that the trail of ants walking across the keyboard was out of place.)

The local city newspaper reflects this enthusiasm. Small but distinct, the computer section of the *Johannesburg Star* is one of the few sections of the newspaper that carries a message of hope... in sharp contrast to the crushing violence that fills nearly every other spot in the journal. Of course, the big computer news is the final release of Microsoft Internet Explorer 4.0. Some things never change.

One final observation before I go find that rhino that has been eluding us. Never before has the phrase, "You either eat lunch, or you're someone else's lunch," been so real to me. Never mind "hostile take-overs" and "cut-throat competition," predators in the African jungle really do eat their prey. Some predators really do eat their young. And no one really sleeps. Ever.

Makes me extraordinarily thankful I live in a silicon jungle, not a real one. ■

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This series of articles chronicles the ups & downs of a new Internet business. Named one of the Top 50 Web sites in the country by WebMaster Magazine, *visit iPrint at* http://www.iPrint.com *and email Royal at* Farros@iPrint.com .

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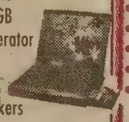

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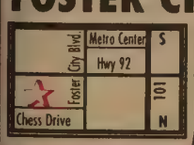

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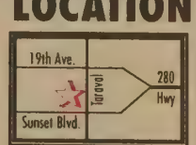

The Eleventh Annual MicroTimes 100

As we went from conference to conference in 1997, we encountered the same phenomenon over and over. Internet startups founded in 1995 described themselves as "old." And most of them that were still alive in 1997 had changed their business model—several times. Despite these unpromising conditions, some of them were actually starting to make money. At the same time, erstwhile titans stumbled—aside from Apple's well-publicized woes, CompuServe was absorbed into AOL and WorldCom, Informix and Sybase hit walls in the enterprise market, Silicon Graphics saw its traditional markets eroded and its brains drained by startups, and so on. The titans that didn't stumble, led by Microsoft and Intel, exhibited a phenomenal lack of complacency. All this being so, it will probably come as little surprise that there are a lot of people on this year's list you've probably never heard of—founders of startups, one-person businesses, intrepid tech-support guys, and relative unknowns who somehow make the industry a little easier to deal with. Some of them will no doubt vanish into peaceful obscurity by next year; some will probably live to be Bill Gates' biggest headache (or next acquisition). Also prominent on the list are some folks we haven't seen for a while—in many cases because they've been building their next startup after the last one gave up the ghost, and the new one is doing something pretty interesting. We'd like to thank our readers once again for bringing many of these deserving souls to our attention. We also encourage you to send us email at *editors@microtimes.com* to reproach us about the equally deserving souls we may have missed!

Paul Allen
Chairman
The Paul Allen Group
Microsoft co-founder, Portland Trail Blazers owner and Jimi Hendrix aficionado Allen is a driving force in developing an increasingly networked and digital world. With investments in companies ranging from WebTV to Metricom to Purple Moon, he's nurturing promising technology and acquiring key pieces of real estate in the world we'll all soon be occupying.

George Antheil/
Hedy Lamarr
Co-Inventors, Spread-Spectrum Radio

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True, we're over 40 years late in honoring these techno-pioneers from Hollywood, whose patriotic ingenuity finally started paying big commercial dividends in wireless communications. But the EFF saw fit to honor them early in 1997 with a special award, and we're happy to hop on the bandwagon.

Chris Athanas
Founder and President
DigiEffects
www.digieffects.com
Assembling a cutting-edge company with veterans of Multimedia Gulch, Athanas is delivering an impressive array of special effects tools. Publications heaped the company's products with awards, and film and multimedia authors flocked to outdo each other in putting the products to work.

Rodrigo Baggio
Founder
Committee For Computer Science Democratization
Baggio's organization, based in Brazil, seeks to offer meaningful alternatives to the drugs-and-gangs world of the country's poor residents. Using donated computers and software, the Committee offers low-cost computer training to slum residents, opening doors to employment opportunities previously out of their reach. The organization has grown to thirty-two schools in Rio and sixteen elsewhere in Brazil, and the World Council of Churches recently gave it a grant to produce a handbook for transplanting the effort to slums in other countries.

Jim Barksdale
President and CEO
Netscape
www.netscape.com
Barksdale's had his hands full keeping Netscape on track and serving a customer base that covers the full spectrum from client to server. Not to mention dealing with that darn company in Redmond and its Internet Explorer. But in the process he's maintained profitability and innovation, while forming and strengthening a number of key industry alliances.

Neal Barry
President and Founder
Delta Internet Services
www.delta.net
Rodney Dangerfield just moved his Web site to Deltanet and is reputed to be getting some respect at last. This is just the latest testimonial to the success for Barry's vision of providing state-of-the-art Internet services to the Southern California business community. Currently one of the largest Web hosting companies in Southern California, Delta plans to continue its local emphasis and top-of-the-line service to its growing customer base.

Carol Bartz
Chairman and CEO
Autodesk
www.autodesk.com

While she seems to get more press for being female than for being a stellar manager, Bartz continues to please analysts and shareholders with record earnings and employees with a well-run company. A decision to cut back multiplatform development to focus exclusively on Windows paid off in a big way, with a long-awaited new release of AutoCAD racking up big sales on the high end as a new version of AutoCAD LT lured the entry-level customer.

Steve Bass
President
Pasadena IBM Users Group
www.pibmug.org
Bass, a frequent denizen of this list, remains one of the leading figures in the user group scene as the long-time president of this major association. His constituents cite his influence as a *PC World* writer and radio speaker, but most of all his record as a powerful advocate for the individual PC user.

Eric Benhamou
Chairman, President and CEO
3Com
www.3com.com

Behamou augmented 3Com's networking business with an interesting acquisition in 1997—US Robotics, whose enormous popularity in the modem marketplace has recently been eclipsed by the runaway success of its Palm Pilot PDA. With the Pilot the darling of consumers and mobile professionals alike, the acquisition provides a unique component to the broader networking solutions 3Com has historically offered.

Jeff Bezos
Founder and CEO
Amazon.com
www.amazon.com
Bezos has shown that his brainchild's initial success was no mere flash in the pan, destined to be eclipsed by the advent of the heavyweight analog-world booksellers on the Web. He's successfully created alliances and partnerships, and supported the development of personalized information and online community, keeping Borders, Barnes & Noble, et al. at bay while Amazon prospers.

Sabeer Bhatia
President & CEO
Hotmail
www.hotmail.com
With the clever ploy of offering free email, Bhatia made his site a magnet for users, currently in the neighborhood of nine million active subscribers. By requiring them to remain on his site while reading the email, he caused them to stick around for extended periods, making Hotmail a magnet for advertisers. While there are still some unanswered questions about the long-term viability of this model, Bhatia's clearly succeeded in creating a win-win online business.

Jim Bidzos
CEO
RSA Data Security
www.rsa.com

continued on page 107

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- Keytronic Windows 95 Keyboard
- CD: Microsoft Window 95

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- Logitech MouseMan & Mouse Pad
- Keytronic Windows 95 Keyboard
- CD: Microsoft Windows 95

Value Buy

$1235

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Pentium 166Mhz MMX...$1260
Pentium 200Mhz MMX...$1360
Pentium 233Mhz MMX...$1450

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- Built-In Yamaha Sound Card
- **Toshiba 24X EIDE CD-ROM Drive**
- Logitech MouseMan & Mouse Pad
- RMS: 30 Watts Speakers
- Keytronic Windows 95 Keyboard
- CD: Microsoft Windows 95

$1565

Pentium 200Mhz MMX...$1665
Pentium 233Mhz MMX...$1755

IQ LEVEL-6 Pentium®

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- **Intel Portland Mainboard** (PD440FX/S)
- **64Mb EDORAM 60ns (SIMM 72Pins 2x32**
- 1.44Mb Floppy Drive
- **3.5Gb Ultra IDE Hard Drive**
- Built-In EIDE & Hi-Speed I/O
- ATX1 Mid Tower Case, 230 Watts P.S.
- **Iiyama 8617E Monitor (17" 1600x1280 0.26dpi)**
- **Matrox Mystique 220 4Mb SGRAM**
- Built-In Yamaha Sound Card
- **Toshiba 24X EIDE CD-ROM Drive**
- Logitech MouseMan & Mouse Pad
- RMS: 30 Watts Speakers
- Keytronic Windows 95 Keyboard
- CD: Microsoft Windows 95

Value Buy

$1785

Pentium II 266Mhz .. $193
Pentium II 300Mhz .. $219

IQ LEVEL-6 Pentium® II

PATHFINDER

- Intel PENTIUM™ II 233Mhz Processor **w/MMX Technology** (CPU L2-512K Cache)
- **Intel Atlanta AL440LX/S Mainboard**
- **64Mb SDRAM 10ns (DIMM 168Pins 2x32M)**
- 1.44Mb Floppy Drive
- **8.4Gb Ultra IDE Hard Drive**
- Built-In Ultra IDE (DMA/33) & Hi-Speed I/O
- ATX2 Mid Tower Case, 250 Watts P.S
- **Sony 200ES (17" 1280x1024 0.25dpi)**
- **Diamond Viper 330 4Mb (AGP Card)**
- **Toshiba 32X EIDE CD-ROM Drive**
- Built-In Yamaha Sound Card
- Logitech MouseMan & Mouse Pad
- Keytronic Windows 95 Keyboard
- Yamaha M7 Speakers
- CD: Microsoft Window 95

Super Deal!

$2165

Pentium II 266Mhz w/512K.$2310
Pentium II 300Mhz w/512K.$2570

IQ LEVEL-6 Pentium® II

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- **Diamond Viper 330 4Mb (AGP Card)**
- **16X SCSI CD-ROM Drive**
- Yamaha Chipset Sound Card
- Logitech MouseMan & Mouse Pad
- Keytronic Windows 95 Keyboard
- Yamaha M7 Speakers
- CD: Microsoft Window 95

Value Buy!

$2425

Pentium II 266Mhz w/512K.$2570
Pentium II 300Mhz w/512K.$2830

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DISCOVER

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- **Built-In Adaptec 7880 UW SCSI Ctrl**
- Built-In Ultra IDE (DMA/33) & Hi-Speed I/O
- ATX1 Mid Tower Case, 230 Watts P.S.
- **Decaview G380 (17" 1280x1024 0.28dpi)**
- **Diamond 3D 2000 Pro 4Mb EDO DRAM**
- 16X SCSI-II CD-ROM Drive
- Yamaha Chipset Sound Card
- Logitech MouseMan & Mouse Pad
- Keytronic Windows 95 Keyboard
- RMS: 30 Watts Speakers
- CD: Microsoft Window 95
- External SCSI-II

$1550

Cyrix/IBM M2-200 MMX..$1575
AMD K6-200 MMX $1645
AMD K6-233 MMX $1705

IQ LEVEL-5 DUAL

LINUX & WIN9

- Intel PENTIUM™ 166Mhz MMX Proces
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- **64Mb EDO RAM 60ns (SIMM 72Pins 1x1**
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- **3.5Gb Ultra IDE Hard Drive**
- Built-In Ultra IDE (DMA/33) & Hi-Speed I/
- ATN Mid Tower Case, 230 Watts P.S.
- **Decaview G380 (17" 1280x1024 0.28dpi)**
- **Diamond Stealth 64 2Mb VRAM**
- 24X EIDE CD-ROM Drive
- Sound Blaster 16 PnP
- RMS: 30 Watts Speakers
- Logitech MouseMan & Mouse Pad
- Keytronic Windows 95 Keyboard
- **CD: Microsoft Windows 95 & LINUX**

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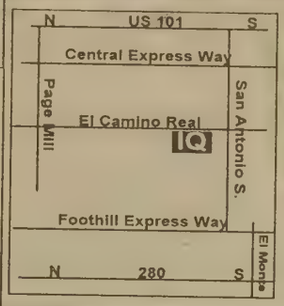

INFOQUEST COMPUTER

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- *Built-In Ultra IDE (DMA/33) & Hi-Speed I/O*
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- *16X SCSI CD ROM Drive*
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- *MS Natural Keyboard*
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- *CD: Microsoft Windows NT 4.0 WorkStation*

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x Pentium II 266Mhz .. $3180

x Pentium II 300Mhz .. $3700

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- *Built-In Ultra IDE (DMA/33) & Hi-Speed I/O*
- ***ATX Full Tower Case, 300 Watts 2.01 Comp. PS***
- *Sony 200ES (17" 1280x1024@60Hz .25dpi)*
- ***MGA Mil-2 4Mb WRAM (AGP)***
- *16X SCSI CD ROM Drive*
- ***Built-In Yamaha OPL3 & OPL4 Wavetable***
- *Yamaha M7 Speakers*
- *MS Natural Keyboard*
- *MS Intellimouse & Mouse Pad*
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$3,300

2x Pentium II 266Mhz .. $3595

2x Pentium II 300Mhz .. $4115

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X² INFOMOVER

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- *MS Intellimouse & Mouse Pad*
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Intel 430TX Chipset
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- Award Flash BIOS (Plug & Play)
- Socket 7 4-PCI & 4-ISA Bus
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- Kensington "Expert" Trackball
- Windows NT 4.0 Workstation
- 300W ATX Power Supply
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- PS/2 Keyboard
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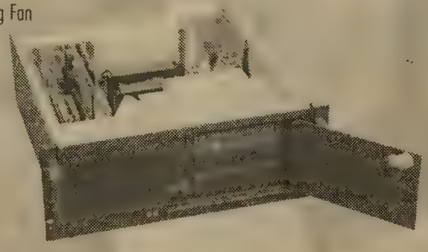

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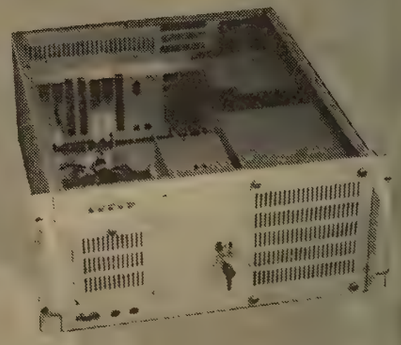

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continued from page 103

When Bidzos was starting out with RSA, encryption was an impossibly esoteric technology. In the meantime, thanks in significant measure to RSA, it's become a key component of everything relating to online commerce, and a host of recently formed competitors are attempting to seize portions of the market. Given Bidzos's resourcefulness and tenacity, to say nothing of attitude, they're going to need all the luck they can get.

BMUG
www.bmug.org
Mac's darkest hour has been no day at the beach for BMUG, which tends to take up a lot of the user-support slack when Apple is otherwise engaged. With conscientious, hardworking volunteers and inadequate resources, this organization remains one of the industry's perennial institutional heroes.

Michael Burton
Owner
NewWaveNewMedia
www.webworldinc.com/nwnm/newwave
Arguably the most compelling promise of the personal computer is enabling individuals to break free of uncongenial work environments and start their own companies. Burton, having done just that in migrating from in-house Webmaster to proprietor of his own design firm, was recommended to us by one of his happy clients for his initiative and quality work. After weathering the difficulties of finding investors and launching his company, he says, "Now the real challenge has begun—make it grow. I feel the start has been a rehearsal at what the possibilities can be, and the dream can only get bigger and better." We wish him all the best in his quest.

Doug Carlston
Chairman
Brøderbund Software
www.broderbund.com

Carlston remains involved in steering the creative direction of Brøderbund, which has another blockbuster with *Riven* from affiliate Cyan. The advent of *Riven* adds the *Myst* family to Brøderbund's evergreen software categories, featuring perennial enhancements to Print Shop, Kid Pix, and the ever-resourceful *Carmen Sandiego*.

Steve Case
Chairman and CEO
America Online, Inc.
www.aol.com
Despite never-ending challenges, Case has managed to adapt to rapid changes in the industry to make AOL the undisputed leader of the online-services market. The once-simple service now claims millions of users and thousands of employees worldwide, including those it acquired with the purchase of CompuServe during 1997.

John Chambers
President and CEO
Cisco Systems
www.cisco.com
Chambers has succeeding in keeping Cisco at the top of the networking heap with a shrewd combination of acquisition and innovation. He's consistently displayed not only the ability to manage a fast-growing company but to anticipate and take advantage of changes in a volatile industry.

Scott Cook
Chairman
Intuit
www.intuit.com
Driven by the need to revolutionize financial automation, Cook has taken Intuit from a purveyor of check-writing software to a full-fledged financial-services empire. Today Intuit's Web site is a one-stop shopping resource for financial services—not just Quicken or tax software, but retirement plans, stock purchases, home mortgages, and beyond.

Jim Dao
Chairman
Communication Intelligence Corp.
www.cic.com/
As one of the relatively rare survivors of the pen-computing debacle of a few years ago, Dao has kept his company on the forefront of natural input, exploring interfaces and developing products for everything from hand-held computers to smart telephones, not to mention signature-authentication technology that's a key enabler for digital commerce.

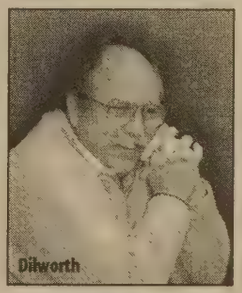
In addition to serving as chairman, Mr. Dao is active in developing CIC's business in Asia, where pen-based input in particular promises huge rewards to the company that finally gets it right.

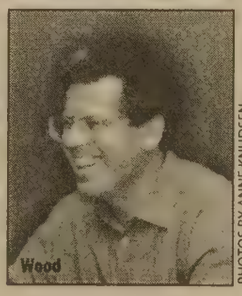
PHOTO BY ANN SUMMA

Sky Dayton
Chairman and Founder
EarthLink
www.earthlink.net
Amid massive shakeouts and consolidations in the ISP business, Dayton has made EarthLink an online home for an ever-growing number of users while positioning it well for future adventures. He's brought effective management onboard, attracted investors including George Soros, and meanwhile maintained EarthLink's netizen status with a strong anti-spam policy and extensive Internet support for local schools.

Michael Dell
Chairman and CEO
Dell Computer Corp.
www.dell.com
He probably didn't win too many friends with his remark that given the chance, he'd fix Apple by liquidating it and giving the money to the shareholders. However, nobody's likely to fault his leadership, as Dell Computer found more and more ways to trounce the competition in the clone wars and rack up record profits. Indeed, by year's end Apple was belatedly copying one of Dell's most successful tools—a build-your-computer-to-order Web site.

Robert Dilworth
Chairman and CEO
Don Wood
President
Metricom
www.metricom.com





PHOTOS BY ANNE KNUDSEN

Metricom's management team scored a major coup in attracting a controlling-interest investment from Paul Allen's Vulcan Ventures. The investment is expected to accelerate the arrival of Metricom's next-generation ISDN-speed radio networks; meanwhile, the earlier technology is allowing low-cost mobile Internet access to those lucky enough to live in the Bay Area, Seattle, and

Washington DC, currently the only service areas for Metricom's Ricochet service.

John Doerr
Partner
Kleiner Perkins Caufield & Byers
www.kpcb.com

During 1997 Doerr joined forces with Netscape's Jim Barksdale and others to found The Technology Network, dedicated to helping "create the framework for a New Economy that encourages individuals to start, build, and operate technology companies—an economy that is conducive to job creation, sustained economic growth, and educational innovation and success." Meanwhile, the oft-quoted venture capitalist also went about the business of starting and nurturing fledgling Internet companies, kept the Java hot, and inspired rumors of a planned political career.

Brian Dougherty
Chairman and CTO
Wink Communications
www.wink.com

After years of serving as chairman and CEO of Geoworks (the little OS that started out GUI-ing the Commodore 64 and eventually found happiness in the cellphone and PDA market), Dougherty spun out Wink with the mission of enabling interactivity over mass-market, low-cost consumer devices. Some of the first Wink-enabled applications are already up and running in Japan, and as Wink-enabled TVs and set-top boxes start appearing in the stores, we'll be seeing a whole new world of enhanced information from football stats to telemarketing. With partners like CNN already on board and ready to start broadcasting in early 1998, Wink has a large playing field.

John C. Dvorak
Columnist

Amid the usual array of alien abductions and surreal experiences, Dvorak continued to ferret out interesting products and annoy Bill Gates for yet another year, to the continuing delight of his many fans.

Esther Dyson
Chairman
EDventure Holdings
www.edventure.com

Where technological wizardry converges with business demands and social issues, there is Esther Dyson, catalyzing new businesses and addressing the complex and often unexpected problems they generate. With the delivery of her first book, *Release 2.0* (which has its own mailing list and Web site at *http://www.release2-0.com/*), she takes her thought-provoking analysis and unconventional insights to new dimensions, offering ideas and inviting debate on the evolving nature of freedom, responsibility, and prosperity in a technology-driven society.

Bernard Ebbers
President and CEO
WorldCom
www.wcom.com

Ebbers had WorldCom on an aggressive growth path in 1997—by year's end, the relatively obscure telco was a global giant, taking over networking divisions of AOL and CompuServe in a complex deal, then taking over MCI. With his sights set on business Internet services worldwide, expect him to capitalize on these acquisitions in 1998.

Kamran Elahian
Chairman and CEO
PlanetWeb
www.planetweb.com

Sure, Elahian's previous startup, Momenta, was one of the industry's more well-publicized fiascos, a casualty of the pen-computing debacle. However, his other startups have been quite successful, and his latest venture looks like another winner, with its mission of bringing easy-to-use, affordable Internet capability to the home. With a current client list that includes Sega, Zilog, Toshiba, US Robotics and GTE, among others, PlanetWeb is well positioned to put the Net on devices from videocams to Web phones.

Larry Ellison
Chairman and CEO
Oracle
www.oracle.com

Quipped *Upside* in naming Ellison to its Elite 100, "Ellison occasionally takes time out from his PR high to run the world's second-largest software company." And indeed, as we go to press Oracle's stock seems to be showing some ill effects—but then, its historic competitors Sybase and Informix are in far more serious disarray.

While engaging in numerous photo ops with his pal Steve Jobs and generally setting records for generating rumors in the Mac grapevine, Ellison not only managed to keep the idea of the Network Computer alive, he positioned it as the key element in the latest Microsoft-killer alliance of Oracle with Sun, Netscape, et al. Microsoft is so far showing no signs of death, and it remains to be seen whether the market will embrace what amounts to a souped-up terminal, but the devices seem likely to find at least a limited niche.

Vicki Esralew
President
Kids Count Entertainment Inc.

Esralew's message of family-friendly kids' software has found a receptive audience, as Kids Count's original offering, *Jack's House*, has been joined not only by *Jack's Attic* but by music and video products similarly devoid of violence, gore and bad vibes. While traditional distribution remains a problem among dealers who'd rather stock *Mortal Kombat*, Esralew maintains a toll-free number (1-800-KIDS-345) to reach interested parents. Her efforts in 1997 were met with a good deal of public recognition, including a performance by Kids Count at the Presidential Inauguration and the designation of Kids Count Week in Cook County, in Esralew's home state of Illinois.

Walter A. Forbes
President & CEO
CUC International
www.cuc.com

Forbes sees the emerging Internet marketplace and the world of interactive media as a huge opportunity for consumer-oriented companies like CUC. Consequently, he's positioning his 20-year-old company to catch the wave—its software division achieved instant clout with the acquisition of Sierra On-line, Davidson & Associates, Knowledge Adventure, and Blizzard Entertainment, and its netMarket (*www.netmarket.com*) Web site offers a dazzling array of goods and services to the online consumer.

David Franey, Connie Ramberg, and Ken Ramberg
Founders
Jobtrak Corp.
www.jobtrak.com

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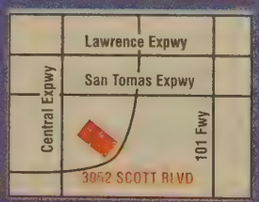

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Job-hunting is probably the closest thing to a killer appplication the Web has yet produced, with many sites vying for attention. Founded in 1987 to create PC-based job-tracking software and migrating to the Web in 1994, JobTrak isn't just another resumé repository.

Franey, Ramberg and Ramberg took a different approach—building in-depth relationships with college career centers, over 650 to date, and offering value-added services attractive to colleges, prospective employers, and job-seeking students and alumni, from training to job search technique tips. In the process, the founders (Connie Ramberg, son Ken, and Toyota Leadership Award Winner Franey) have in the process become experts on job market trends and grown the company to its present size of 100 employees.

And, as Marketing Director Hae Yung Kim points out, the company is an online company that's successfully making a profit, which is certainly noteworthy these days.

Mary S. Furlong
Chairman and CEO
Third Age Media
www.thirdagemedia.com

After founding SeniorNet and serving as the non-profit organization's president for years, Furlong has launched a new startup to produce Web-based services for Third Agers—active, older adults. Given SeniorNet's track record and the fact that Boomers are entering their Second Half-Century with a mix of glee and trepidation, it seems likely that Furlong has found a good niche for her latest endeavor.

Gary Gach
Author
The Pocket Guide To The Internet
www.geocities.com/Athens/Acropolis/2730

After some years of Internet teaching at the Learning Annex, Gach distilled the resulting experience into his affordable, human-friendly bestseller. The updated version is in progress, but meanwhile he's also published another tome, *Writers.Net*. In addition, he's a regular contributor to *American Reporter*, a pioneer in the genre of online dailies.

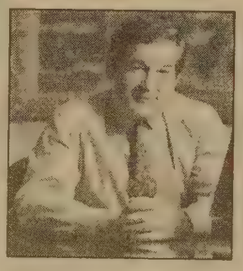
Jean-Louis Gassée
Chairman and CEO
Be Inc.
www.be.com

In a business climate where startups are old at 18 months, and Microsoft has allegedly won the OS war, a 7-year-old company dedicated to producing a better operating system is anomalous, not to say quixotic. Nonetheless, Gassée has managed to get Be past numerous road hazards, actually shipped the first version of the BeOS, and formed enough credible alliances and partnerships to keep the company viable. With the impending Intel version due early in the year, bigger possibilities await.

Bill Gates
Chairman and CEO
Microsoft
www.microsoft.com

Undeterred by cries of foul from beleaguered rivals, Chairman Bill keeps Microsoft on top by behaving as if it were in constant mortal peril. Despite those pesky problems with the DOJ, Gates kept the Microsoft juggernaut at full speed, eroding UNIX's market share with NT, gnawing away at Netscape's omnipresence with Internet Explorer, and creating intense mixed feelings with an equity investment in Apple—all the while buying up strategic pieces of a world that doesn't quite exist yet, from Comcast to WebTV.

Lou Gerstner
Chairman and CEO
IBM
www.ibm.com/lvg



The guy from Nabisco has successfully revitalized the once-floundering Big Blue into a lean, mean business machine. Notwithstanding media opportunities like the chess-playing Deep Blue, IBM's message was one of helping customers do business—and turn the Internet's capabilities to their advantage. The Big Blue imprimatur on online commerce was a good validation; the stock dividends and rising price per share were a testimonial to Gerstner's successful approach.

Rob Glaser
Chairman &CEO
RealNetworks
www.real.com

Reader Steven Steinbrecher praises the endeavors of Glaser and his company in not only establishing the Internet as a multimedia platform with RealAudio but continuing to innovate with RealVideo, which, he says, promises to blur the distinction between a passive medium, TV, and an active medium, the Web.

Meanwhile, though Glaser may have changed the company's name from Progressive Networks to one more reflective of its product line, he remains actively involved in the meta issues of the Net, serves on the board of EFF and supports the political WebActive site (*www.webactive.com*) as a RealNetworks project.

Mike Godwin
Staff Counsel
Electronic Frontier Foundation
www.eff.org

Overturning the Communications Decency Act was definitely a group effort, but one of the campaign's most eloquent and forceful voices was Godwin's, arguing the case in assorted venues before finally reaching the Supreme Court. His forthcoming book, *Cyber Rights: Defending Free Speech In A Digital Age*, due in early 1998 from Random House, promises to promote awareness of the critically important issues as the law attempts to address a radically changing world.

Nat Goldhaber
Founder and CEO
CyberGold
www.cybergold.com

Entire convoluted industries have grown up around various subterfuges to get the right audience to pay attention to a particular vendor's sales pitch. Never having been overburdened with conventional thinking, Goldhaber is cutting to the chase in his new venture (launched with promotional wizards Regis McKenna and Jay Chiat)—never mind the subterfuge, pay the right people to read the right ads. With a growing number of sponsors and offers, a privacy-friendly personal information policy, and payments you can send to your bank or deposit on your VISA, CyberGold is pioneering one of the more interesting (and more potentially revolutionary) aspects of online commerce.

Igor Gorjushin
Founder
Anet Software
http://anetusa.com or www.anet.ru

From Preston Taylor of Alamo comes this testimonial about a Russian engineer with global influence: "Mr. Gorjushin is personally responsible

continued on page 114

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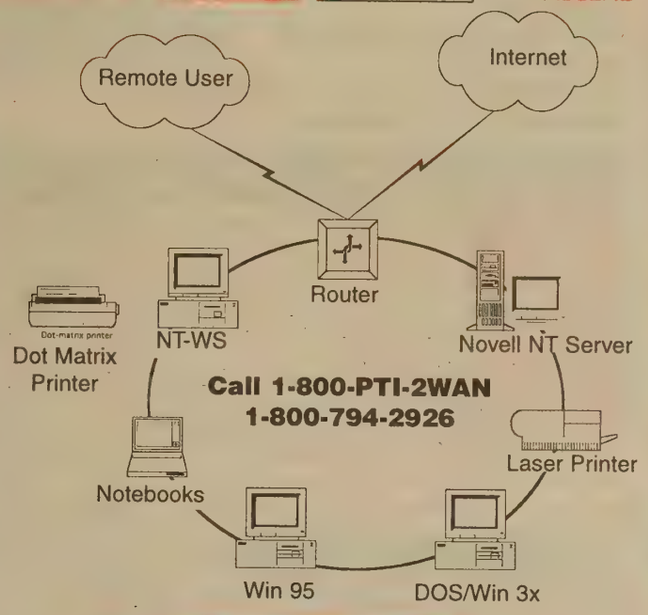

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Display	CPU Type	1.4GB	2.0GB	3.0GB
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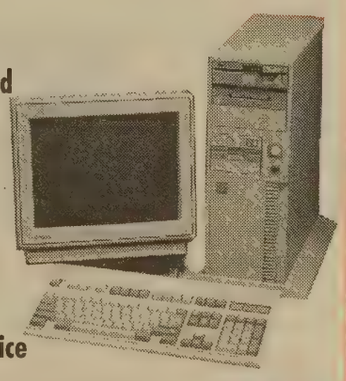

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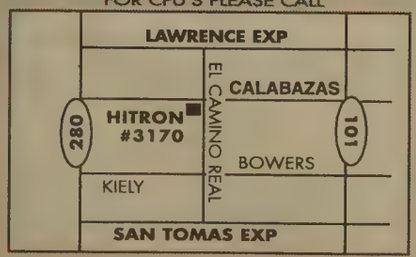

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for major development strides by emerging Russian software development companies. His own company produces award-winning software. But, his major accomplishments are centered on promoting other small Russian developers.

"With letters of recommendation from Microsoft and Intel, with whom he works closely, he brings companies into cooperative agreements to help them polish their business practices and products for global distribution. His efforts help qualified individuals produce an honorable living in Russia's moribund economic atmosphere. He is building an entire business culture, promoting production, innovation and growth. His company provides an avenue to the Western world.

"Anet Software is one of the most established development companies in Russia. Mr. Gorjushin built this company with virtually no outside investment and no personal experience during historic turmoil and transition while Russia changed from Communist to a Democracy. He survived through the tumultuous fall of Gorbachev's Soviet Union and the failure of Yeltsin's Federation of former Communist Republics. Anet thrives now, in the constantly changing rules of the new Russia."

We're happy to join in saluting Mr. Gorjushin, and highly recommend visits to his Web site.

Andy Grove
Chairman and CEO
Intel
www.intel.com

Frankly, we're not sure about all those dancing engineers in neon space suits, but they're an unforgettable icon for Grove's latest market push into the world of video, from conferencing to gaming. That in turn is only the latest indication of his tireless quest to anticipate and capitalize on emerging markets. Meanwhile, back in the mainstream, he also keeps the Pentium family well ahead of its competition as the silicon platform of choice.

Jeff Hawkins
Chief Technical Officer
Palm Computing
http://palmpilot.3com.com/

After years of struggling with the assorted problems of pen-based computing, something that's been occupying him since the GriDPad, Hawkins and his team finally hit the sweet spot with the Palm Pilot. The little PDA was a blockbuster in 1997, bringing new credibility to a market that's been longer on hype than functionality, and spawning an entire industry of applications and add-ons.

Frank Huang
Chairman and CEO
UMAX Data Systems
www.supermac.com

While Huang has long kept Taiwan-based UMAX a key player in the arena of PCs, motherboards, scanners, and other devices, his most stunning accomplishment during 1997 was retaining UMAX/SuperMac's status as the only worldwide licensee of the MacOS at a time when Mac cloners were experiencing a Jobs-induced bloodbath. Not only is UMAX offering its customers OS 8-based models, Huang extracted a pledge from Apple to to certify future UMAX products and include MacOS 8 in all new UMAX system designs (excluding those based on CHRP) through July, 1998.

Echoing the sentiments of a grateful populace, Huang commented: "Mac clones today remain an important part of a healthy Macintosh market, and UMAX is committed to leading this vital market segment with world-class products and world-class partners such as Apple. UMAX has always had a strong relationship with Apple. We are confident that we will maintain this relationship and continue to contribute to the advancement of the Macintosh platform, and expand the Macintosh market as a whole."

Dave Hughes
Managing Partner
Old Colorado City Communications
www.oldcolo.com

Unlicensed-spectrum wireless's biggest evangelist, Hughes made excellent progress during 1997 with his National Science Foundation grant to deploy wireless Internet access in Colorado's San Luis Valley. The service is up and running, delighting rural schools and discomfiting the local telcos prepared to charge through the nose for similar access.

International Brotherhood of Teamsters
www.teamster.org

Normally the Teamsters are a bit far afield from the high-tech industry, but their successful strike against UPS helped focus attention on a similar inequity in the treatment of the computer industry's contract workers. We hope the cautionary episode resonates in the proper quarters.

Irwin Jacobs
Chairman and CEO
Harvey White
President
Qualcomm
www.qualcomm.com

Qualcomm's co-founders have built the San Diego company into a leader in wireless communications, from satellites to cellphones—to say nothing of the various Eudora email packages. Departing a bit from the strictly technological, they also entered into a deal with the city of San Diego by which the facility housing Chargers and Padres games will henceforth be known as Qualcomm Stadium.

Steve Jobs
Acting CEO
Apple Computer
www.apple.com

"He has resurrected Apple from the brink of insignificance!" enthuses one reader.

Well, maybe. It remains to be seen whether founder Jobs has succeeded in reversing Apple's death spiral, though the G3 machines represent a much-needed step in the right direction. We wish him well, particularly since a Mac-less world is too horrible to contemplate.

Brewster Kahle
President and CEO
Alexa Internet
www.alexa.com

Having sold WAIS to AOL, Kahle has found himself a new project—a Web navigation tool designed to learn from its users and produce affinity-based recommendations of where to go next. The Alexa software is immeasurably aided in this endeavor by one of Kahle's ongoing projects—archiving the entire Internet.

Stephen Kahng
Founder and CEO
Power Computing
www.powercc.com

The unchallenged winner of the 1997 No Good Deed Goes Unpunished Award, Kahng effectively kept the Macintosh platform alive while

continued on page 118

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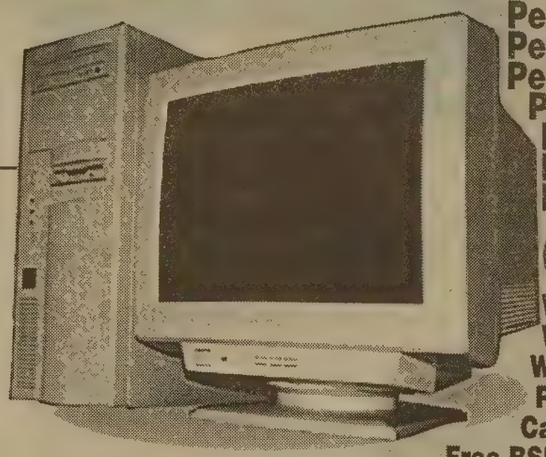

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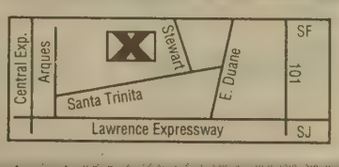

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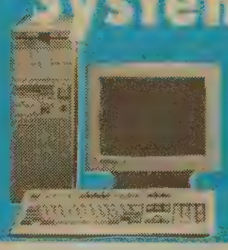

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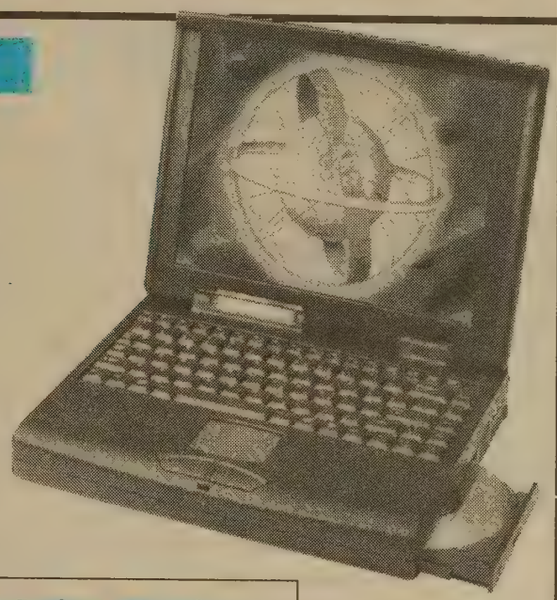

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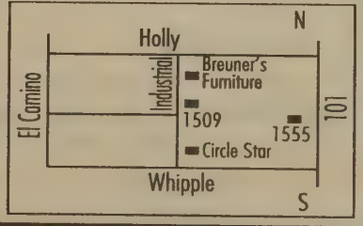

continued from page 114

Apple was busy growing itself new feet to shoot, only to have Apple belatedly decide that Mac clones weren't such a hot idea after all.

We thank him for the commandos and Humvees at Moscone, wish him the best in his further adventures, and salute him for leadership by example—finally you can order custom Macs on the Web from Apple.

Jerry Kaplan
CEO
Onsale
www.onsale.com

Startup author Kaplan has a much more cheerful story to tell this time around, as his auction-house brainchild had itself a nice IPO, achieved presentable revenue, and spawned a host of competitors. Despite the occasional contretemps like the email controversy with competitor eBay, Kaplan's done a good job of charting Onsale's course through turbulent waters and attracting a loyal clientele.

Guy Kawasaki
Chief Evangelist
Apple Computer
www.lists.apple.com/evangelist.html

PHOTO BY ANNE KNUDSEN

1997 cannot have been an easy year for Kawasaki, as the chasm between Apple and The Macintosh Way grew ever wider. Still, through innumerable scary manifestations of corporate fu, he managed to rally the Mac's true constituency, the users and developers, and keep them talking to each other. We extend heartfelt hopes that 1998 brings abundant justification for his sorely tried fervor and zeal, and wish him luck with his newest book, *Rules for Revolutionaries.*

Tim Koogle
President and CEO
Yahoo!
www.yahoo.com

When Yahoo! went public in 1996, there was much comment about its long-term viability. However, in what remains the fiercely competitive world of online search engines, Koogle has kept Yahoo! at the forefront, evolving it from simple search engine to media giant, offering everything from articles to email and garnering the kind of traffic that makes advertisers vie to buy space on the site.

Mike Kramer
Owner
Kramer Computer Services
www.Kramernet.com

Kramer is another addition to our parade of unsung heroes—in this case, his praises are indeed being sung by one of his satisfied clients, who reports: "Mike is a well-above-average computer technician—program literate, and industry aware. He is always ready to help anyone untangle the myriad of computer snafus. In short, he is very worthy to be considered as an unsung hero nominee." We're happy to concur.

Kai Krause
Chief Science and Design Officer
Metatools
www.metatools.com

Krause was back with another blockbuster graphics product in 1997—this one aimed at the consumer market rather than the professional. Kai's Power Soap, released to the same raves as its predecessors, allows ordinary humans to get rid of common photo problems like color imbalance and the ubiquitous red-eye without acquiring a PhD or spending a fortune in the process.

Scott Kurnit
Chairman & CEO
General Internet
www.miningco.com

Kurnit's pioneering one of the more interesting innovatiions in Internet content—The Mining Company offers special-interest Web sites hosted by guides who help people find the information they'll find most useful. The resulting information is then used by General Internet's commercial side to address the needs of its corporate clients seeking to build Internet-enhanced customer relationships.

William Larson
Chairman and CEO
Network Associates
www.networkassociate.com

Merging McAfee Associates with Network General, Larson has parlayed leadership in the anti-virus market into a powerhouse security company addressing everything from network management to encryption. As security becomes a key component of ubiquitous online activity, expect some interesting interactions between Larson and Jim Bidzos of RSA as they compete for this emerging market.

Brenda Laurel
Vice President, Design
Purple Moon
www.purple-moon.com

After years of research at Interval, Laurel took her knowledge and turned it into a company whose mission was to be meaningful in all aspects of a girl's life—specifically, to create software that addressed the oft-lamented fact that preteen girls find *Duke Nukem* et al. consummately boring. While she's taken some flak from purists over merchandising arrangements for action figures, Purple Moon backpacks, and Bonne Bell Lip Smackers, Laurel has had a vital role in creating the first two heavily character-based software offerings and developing Purple Moon's multifaceted relationship with its audience.

Wyatt Leung
President
Chinese Software Professionals Association
www.cspa.com

While Leung is no doubt a considerable asset to his employer, BroadVision, he really shines as CSPA's president. Through a well-developed blend of inspiration and nagging, he manages to mobilize an ever-growing group of volunteers to make CSPA one of the Valley's most dynamic professional associations, with events like annual conferences and job fairs adding value to its ongoing schmooze possibilities.

Charles Liang
President and CEO
SuperMicro
www.supermicro.com

Liang has led his company aggressively in the development and marketing of high-speed motherboards, culminating in the recent release of the SuperP6DNH2 dual-Pentium Pro server series, one of the first implementations of the I2O intelligent I/O standard. With innovations like a diagnostics program and automatic fan included on each motherboard, Liang has pushed for added value in his product line, driving continuous improvement in the boards and continuous growth for SuperMicro.

All of us at Paramount Computer wish you a merry Christmas and a happy New Year!

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James Liggins
Founder
Inner City Computer Society
http://host3.scbbs.com/~iccs
Liggins continues to augment the alliances and resources offered by this group, which helps Southern California's inner-city residents take advantage of the opportunities offered by technology. With a mailing list and support from the local business community, Liggins is making a significant—and practical—difference.

Bela Lubkin
Tech Support
Santa Cruz Operation
www.sco.com
A colleague at SCO urges us to add Lubkin to our list of deserving unsung heroes, which in this era of usually-lamentable tech support is something we're happy to do. Says our correspondent: "Bela has single-handedly helped more users out of tight spots, especially with old hardware and software, than any one else (at SCO at least). The list of people worldwide who would cheer to see his name on the list would number in the thousands." Cheer on, folks!

Scott McNealy
President and CEO
Sun Microsystems
www.sun.com/corporate overview/ceo/message.html
McNealy had good cause to worry as Windows NT made inroads into the enterprise markets Sun used to own, and Microsoft managed to coopt the Java standard in ways he hadn't exactly planned on. Nonetheless, he dealt with these hazards while doing his part to advance the cause of Java and network computers, keeping Sun prosperous, and regaling audiences with tales of how Java would bring about the age of George Jetson.

Alan Meckler
Chairman, President, and CEO
Mecklermedia Corp.
www.meckermedia.com
While the giants of trade shows and industry publications eventually recognized the potential of the Internet and set out to exploit it, they tended to find Meckler already in residence when they got there. Today, with a nice assortment of publications and conferences, not to mention the invaluable ISP-finder site *www.thelist.com* , Meckler remains the definitive source of info and connections for all matters Net-related.

Rand Miller
President/Executive Producer
Robyn Miller
Director, Riven
Cyan Inc.
www.cyan.com
The Miller Bros. have done it again—their long-awaited sequel to *Myst* is already a blockbuster, and has launched innumerable gamers on a new quest. Of course, given the game's multi-CD size, their contribution to the vendors of storage media is also non-trivial.

Meanwhile, an ever-growing family of books and merchandise makes *Myst* a truly multimedia experience.

Chris Nolan
Columnist
San Jose Mercury-News
www.mercurycenter.com
Nolan started a gossip column in the *Merc* in April, which has become a runaway success—in the words of one reader, "she's on her way to becoming the Balzac of Silicon Valley with her unique blend of knowledge, wit, and insight into the deeper issues."

Says Nolan herself: "Before coming here I covered politics and technology for a cable television industry trade magazine. I lived in Washington, DC and covered the passage of the 1996 Telecommunications Act. When it passed, I decided to leave Washington, figuring that piece of legislation was to the computer business what the highway act of the 1950's was to McDonald's. The action, the money, and the stories are here.

"Besides, I have managed to find a job where I go to parties, talk to millionaires and write about it. Let's face it, it appeals to my basic instincts, so to speak."

Jeff Papows
President
Lotus Development Corp.
www.lotus.com
On this side, Lotus Notes, proprietary groupware behemoth beloved of corporations. On the other, the wild and woolly Internet, and MIS Guys wondering if it might not offer a better way. With Domino and the Work The Web campaign, Papows successfully migrated Notes to the intranet environment, got a foothold in a promising new market, and contributed nicely to parent IBM's bottom line.

Sameer Parekh
President
C2Net
www.c2.org
Always fond of privacy and personal freedom, Parekh made last year's list for protecting the privacy of customers of his Community ConneXion ISP. Having had a business epiphany in the meantime, Parekh transformed the company from ISP to full-time purveyor of industrial-strength, globally distributed cryptography. By virtue of developing strong crypto offshore and housing it on a server on Anguilla, Parekh's Oakland-based business enjoys a growing client base and competes effectively with companies unimpeded by US government crypto restrictions.

Marilyn Hall Patel
Judge
Federal District Court
www.eff.org/bernstein/Legal
In the case of *Bernstein v. US Department of Commerce*, Judge Patel held that "the encryption regulations [of the US Government] are an unconstitutional prior restraint in violation of the First Amendment."

Her decision in the case of mathematician Daniel Bernstein, who was trying to teach an online course on crypto and was stymied by export regulations, was widely hailed by industry figures and civil libertarians alike. Unsurprisingly, it was immediately challenged by a government made nervous by the prospect of documents it can't read, and as we go to press the case is under review by the Ninth Circuit Court of Appeals. Nobody seriously expects this case to end this side of the Supreme Court, but we are happy to salute Judge Patel for an intelligent and far-reaching decision.

Bob Pearlman
President
Autodesk Foundation
www.autodesk.com/foundation
At a time when the mismatch between the skills taught in schools and the skills required by fast-moving industries is reaching crisis proportions, Pearlman is trying to bridge the gap. The Foundation's mission to foster project-based learning in the schools, through ongoing programs and its annual conferences, provides a broad range of resources to teachers and counselors struggling to deal with school-to-career issues.

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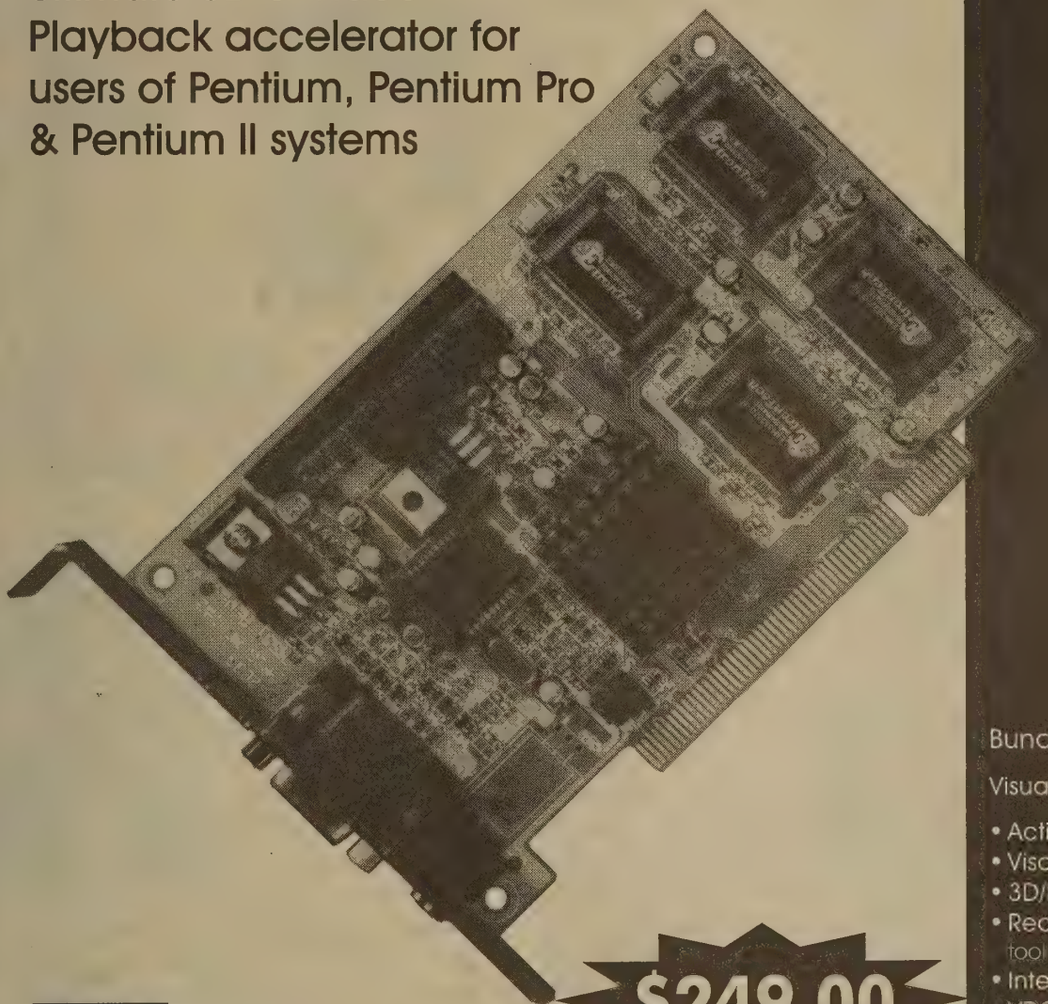

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- Extreme 3D (Micromedia)
- TrueSpace (Caligari)
- AVS/Express (Advanced Visual Systems, Inc.)
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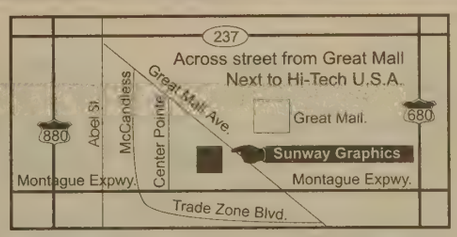

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Steve Perlman
CEO
WebTV Networks
www.webtv.com
Few endorsements of your concept rank quite as high as Microsoft's buying your company, which is what happened to Perlman and his co-founders in 1997. Remaining as CEO of the new Microsoft subsidiary, he now has the task of making such offerings as The Tamagotchi Channel and push content from Disney as indispensable to TV-based netizens as the Mickey Mouse Club once was to suburban boomers.

Eckhard Pfeiffer
President and CEO
Compaq
www.compaq.com
Pfeiffer pleased the customers with competive pricing, the shareholders with profits and stock splits, and the strategic planners with his focus on capturing the enterprise market. Toward the latter goal, he augmented Compaq's already thriving server business with the acquisition of Tandem, for access to the really serious Big Iron markets.

Lew Platt
Chairman, President and CEO
Hewlett-Packard
www.hp.com

Platt led HP into further forays during 1997, with NT-based systems in particular making strong headway in the enterprise and Intranet markets. Meanwhile, he continued to be a good custodian of the HP Way, promoting a culture of developing good products by treating people well, a practice we'd like to see attain wider emulation.

Larry Probst
Chairman, President and CEO
Electronic Arts
www.ea.com
Under Probst's leadership, EA has stayed dynamic and profitable in a market characterized by platform wars, ferocious competition, and the inherent unpredictability of showbiz. In 1997 he kept EA busy with hit products for Playstation, Saturn et al., while on the PC side adding Maxis and its family of Sims to the EA product line.

Jeff Pulver
Creator
Free World Dialup Project
www.pulver.com.80/fwd/
Pulver launched this all-volunteer project in 1995, and by last year had gateways in numerous US cities and around the world. While the initial impetus was to exploit the Internet's telephony capabilities to allow free phone calls, the project has become a test bed for a number of entrepreneurs and telecommunications companies seeking to prepare for the future.

Callers to one local gateway can make a call to any number in the local calling area of any other gateway. Volunteers, who pay for their gateways and the necessary maintenance, agree not to charge callers money (thereby causing the whole service to fly under the radar of governmental regulators). It remains to be seen how well this approach scales up, but it portends an interesting change in communications business models.

Brian Reaves
CEO
Beyond Software, Inc.
www.beyond-software.com
One of the gnarlier problems facing the corporate world (aside from the Year 2000 problem) is migrating its legacy information and applications from mainframes to the Internet/intranet environment. Reaves cofounded Beyond Software with three other young entrepreneurs to address this problem, and Beyond Software has become the leading provider of Web-based solutions for enterprise computing. Its customers include J.C. Penney, Bank of America, Boeing, Lehman Brothers, Merrill Lynch, Pacific Bell, Wells Fargo, US West, and scores of others, all mainframe companies.

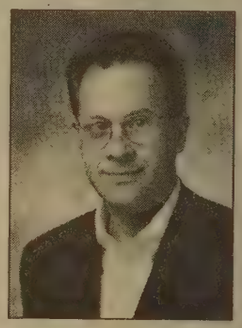
Beyond recently topped *Information Week*'s list of "Great Unknown Companies And Why You Should Know Them."

Howard Rheingold
Founder
Electric Minds
www.minds.com

Virtual Community author and colorful star of Kinko's commercials, Rheingold had his own trip on the Internet Startup Rollercoaster in 1997. His eMinds chalked up a number of noteworthy accomplishments, including a much-ballyhooed Deep Blue online event with IBM, but the online community business model failed to develop soon enough for the investors, who pulled the plug. At the last minute Minds was rescued by a new owner, and while much of the original concept has been irrevocably altered, the neighborhood continues and the Rheingoldian One is still in residence.

Heidi Roizen
Principal
Roizen Associates
www.roizen.com/heidi/
Dubbed "the canary in Apple's coal mine" when she took the job as VP of Developer Relations, Roizen precipitated much outcry a year later when she bailed from what was clearly a non-tenable situation. Now she's doing some consulting, serving on some boards of directors, and generally dispensing wisdom and credibility in various locales of the software business.

Alain Rossmann
Chairman and CEO
Unwired Planet
www.unwiredplanet.com



Rossmann's last foray into mobile computing was with the ill-fated EO, but he's undeterred. Unwired Planet, which he founded in 1994, is taking a somewhat different approach to the needs of the location-independent user, developing technology that offers Internet access through such non-traditional devices as cellphones and pagers. With 350 companies at Unwired's last developer conference, Rossmann appears to be on a promising path.

Jerry Sanders
Chairman and CEO
AMD
www.amd.com
Roaring back with the K6 processor line, Sanders may not actually be a serious threat to Intel. However, his ongoing quest for competition, innovation and improving the price-performance ratio of available CPUs have made him a boon to cost-conscious users.

continued on page 126

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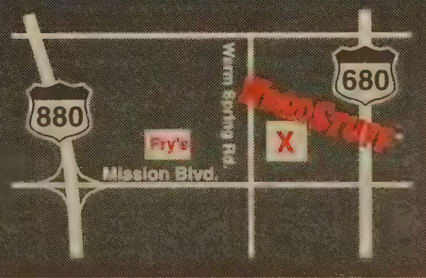

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460 CDT	166MMX	2.1	32	10X	33.6	12.1TFT	$CALL
510 CDT	133	2.1	16	10X	28.8	12.1TFT	$CALL
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760 XD 9546U9E	166MMX	3.0	32	8X	NO	12.1TFT	$3774

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555 TX	150MMX	2.0	16	10X	33.6	12.1TFT	$2339
565 TX	166MMX	2.0	32	20X	33.6	12.1TFT	$3029
655 TX	150MMX	1.3	16	8X	33.6	12.1TFT	$2279
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- HP C3903A HP 5P, 5MP, 6PXi 81
- HP C3906A HP 5L, 6LXi 65

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- Viper V330 4MB PCI/AGP 169/175
- Fire GL 1000 Pro PCI 4MB/8MB 169/215

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- Matrox Mystique 220 2/4MB SGRAM $109/129

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EVERGREEN

continued from page 122

Eric Schmidt
CEO and Chairman
Novell
www.novell.com
Conventional wisdom questioned Schmidt's sanity for leaving a nice established place at Sun to take on the well-documented woes of Novell, but seemingly he needed the challenge. The rumor mill periodically suggests that Schmidt's true mission is to groom Novell for takeover by Sun, but in the meantime, he's streamlining operations, introducing radical concepts like Internet, and generally shaking things up in ways not seen since Ray Noorda brought the company back from the brink of death in the olden days.

Bruce Schneir, David Banisar
Editors
The Electronic Privacy Papers
www.wiley.com/compbooks
Security expert Schneir joined forces with privacy advocate Banisar to produce this impressive collection of industry and government documents, many previously classified. The result is an invaluable reference for anybody concerned with maintaining the security and privacy of their communications, and interested in understanding the mentality of agencies that would prevent them from doing so.

Susan Scott
Executive Director
TRUSTe
www.truste.org

As Internet-enabled business booms, merchants want to learn more and more about their customers, while their customers are more and more concerned about keeping their personal information private. Scott presides over this much-needed organization, launched in June 1997, which addresses the various marketing needs and privacy concerns inherent in online commerce by promoting a culture of flexibility and full disclosure. Originally founded by CommerceNet and the Electronic Frontier Foundation, TRUSTe has drawn support from merchants and customers alike, while drawing attention to an aspect of the digital revolution that's often ignored until it's too late.

Dick Shaffer
Principal
Technologic Partners
www.tpsite.com
Investors, from the institutional to the individual, fuel the growth and development of the high-tech industry. Shaffer's newsletters provide inside info to prospective investors, and his conferences remain the industry's premier schmoozefests, where hopeful entrepreneurs meet and woo potential funders in search of the next Netscape, Yahoo, etc.

Chuck Shotton
Quarterdeck Fellow
StarNine
www.quarterdeck.com
With a new release of WebSTAR and continued work on enhancements, Shotton and his team led the effort to keep the Macintosh a viable contender in the Internet server marketplace at a time when Cupertino seemed unclear on the advantages of its own product.

Masayoshi Son
President and CEO
Softbank Corp.
www.softbank.com
With well-entrenched global leadership in publishing and conferences, Son continued to empire-build—investing heavily in Internet-related startups from content to infrastructure, and forays into broadcast media with ZDTV and other ventures.

David Talbot
Editor and CEO
Salon Internet
www.salonmagazine.com

Many have tried, many have died when it comes to commercial publishing on the Net. Talbot, who left the *San Francisco Examiner* to start Salon, has so far managed to triumph over the naysayers, all the while garnering kudos for everything from Salon's quality articles to its enlightened freelance contract. Meanwhile, the site has continued to grow its circulation and revenue, moved to daily publication—and actually syndicated some of its stories to print media.

Dave Thoma
President and CEO
ClassiFind Network
www.classifind.com
Thoma founded ClassiFind in 1995 to develop a strategy of partnering with existing classified sources to bring multimedia classified ads to the Web. The current incarnation of the service premiered in July, with RealAudio and RealVideo clips augmenting searchable text ads, and has become not only a popular advertising and shopping destination but a showcase of just how good Web ads can really be.

Linus Torvalds
Author
Linux
www.iinet.net.au/~pdcruze/
While Torvalds has now left the University of Helsinki for Silicon Valley—he's now at the definitely uncommunicative Transmeta in Santa Clara—the estimated 3–5 million users of his freely distributed and much-collaborated-upon OS don't have to worry. His new employer, yet another Paul Allen-funded startup, is on record that whereas they won't exactly say what he's really working on, they think it's important for him to keep working on Linux.

US Supreme Court
We're happy to join the chorus saluting the Justices for their good sense in declaring the Communications Decency Act unconstitutional, and also join in the fond hopes that they will be similarly clued as the forces of censorship launch their next campaign.

Ted Waitt
Chairman and CEO
Gateway 2000
www.gw2k.com
Waitt's herd of digital Holsteins got even bigger during 1997, as Gateway's down-home operations expanded worldwide into new markets. The really interesting question, however, is what Gateway's planning to do with the Amiga technology of which it is the most recent owner.

Dave Wald, Juan Reardon MD
Founders
InfoMed USA
www.igc.apc.org/cubasoli, www.cubaweb.cu/medicina/infomed/im0.html
Writes reader Tom Kelly of Berkeley, "Dave and

B.A.M. Bay Area Micro

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matrox

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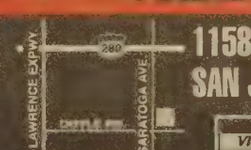

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Juan have organized a completely volunteer effort to provide computers used to link all of Cuba's public health system—from Havana to the smallest rural health clinic. This year over 1000 donated and rehabilitated computers, monitors, and peripherals will be shipped, all this in the face of a US government embargo which includes food and medicine. Computers have been donated by individuals and companies; all rehab efforts have been done by Dave, Juan, and a few volunteers."

We're happy to applaud this endeavor, and hope it inspires others to recycle old equipment where it will do the most good.

John Warnock
Chairman & CEO
Charles Geschke
Chairman & President
Adobe Systems
www.adobe.com

It's not every high-tech company that still exists fifteen years after its foundation, and it's even rarer for the founders of such an enterprise to remain in charge. Warnock and Geschke have parlayed their early insight into the importance of laser printers into a company whose tools are vital at all levels of media production—from special effects in blockbuster movies to photos of the Brownie Camping Trip in the troop Web page. While keeping Adobe at the forefront of a volatile industry, they've also managed to keep it at the forefront of human-friendly corporate culture.

Jim Warren
Columnist

As we go to press, Warren is somewhere in the Caribbean with his new catamaran. Nonetheless, we were happy to see his return from his writing hiatus in 1997, and along with his fans are equally happy to salute him for his ongoing efforts to propel government into the computer age.

Ken Wasch
Executive Director
Software Publishers Association
www.spa.org

Wasch runs an organization that's ferocious in its zeal to guard the interests of software publishers and has been instrumental in clarifying some critical intellectual property issues for legislators. While we'd like to see fewer fanciful claims about Dollars Lost To Software Piracy and less encouragement of practices like reporting one's employer to the Software Police, we'd also like to salute Wasch and the SPA for the invaluable resources they offer to the industry.

Ann Winblad
Partner
Hummer Winblad
Venture Partners
www.humwin.com

Probably the least-scary VC in the business, Winblad is also one of the most savvy and most successful in nurturing the shaky startup and building useful alliances. Excelling in people skills as well as business acumen, she's a tireless networker in the industry and a competent recruiter of talent for her portfolio companies.

Dave Winer
Software Developer, Publisher
Dave Net
www.scripting.com/dwiner/

Our good friend Sylvia Paull writes in to remind us about Winer, who was certainly much in evidence with Dave Net's anguished plaints over the past year. Says Sylvia: "It's the only widely read newsletter that presents the views of a developer, who must suffer the slings and arrows of the operating platforms wars. Dave's tone is frank and fresh—if not whiny at times—and almost every column seems to strike a nerve in the collective conscience of the computer industry. He gets responses to his statements from the likes of Bill Gates and Steve Jobs, and other luminaries down the line. He's raised the hackles of many a top computer company exec, but because his column goes out to the creme de la creme, they feel the need to respond. For a viewpoint of the industry unlike any other, reading Dave Net is a must."

We agree, and encourage Winer to keep fighting the good fight—and talking about it.

Delbert W. Yocam
Chairman and CEO
Borland
www.borland.com

Apple veteran Yocam had already achieved some distinction as a turnaround specialist at Tektronix before coming to Borland, by which time the struggling developer-tools company appeared to require divine intervention. Yocam, however, has managed to restore focus, profitability, and growth, to the general improvement of morale in Scotts Valley.

Pierluigi Zappacosta
Chairman
Logitech
www.logitech.com

Now, Logitech is a distinguished company and in general, to use its fine products—mice, trackballs, digicams, scanners, whatever—is to sing its praises.

However, that's not what Zappacosta is doing on this year's list.

He's on the list this year because, in a goof lovingly chronicled and partially instigated by the *San Jose Mercury News*, he foisted Dilbert cartoonist Scott Adams, disguised as a Famous Consultant, on Logitech's executive team. Zappacosta contributed admirably to the hoax by innocently serving as Adams's yes-man as he goaded the bewildered executives into ever-greater excesses of Mission Statement Stupidity.

We're not sure the Management Team at Logitech is enjoying the joke yet, but it will live on in cherished legend as long as hapless workers and customers have their otherwise harmonious business relationship disrupted by outside experts perceived by the boss as the company's salvation.

Phil Zimmermann
Fellow
Network Associates
www.pgp.com/phil/phil.cgi

PGP Inc. having been recently acquired by the new-formed hybrid of McAfee Associates and Network General, Zimmermann's role in the company could be seen as essentially symbolic at this point. However, with his implacable commitment to robust, trapdoor-less crypto tools for anybody who feels the need for them, he's a very powerful symbol—within days of the announcement of the acquisition, Network Associates suddenly announced that it was withdrawing from the Key Recovery Alliance, a trade organization of firms producing encryption software with government-accessible back doors. As he told *Netly News* correspondent Declan McCullagh, "I never would have allowed my own company to join the Key Recovery Alliance. As soon as I found out about McAfee being a member, I tried to do something about it." ■

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Mac's Year Of Hell

By Mary Eisenhart

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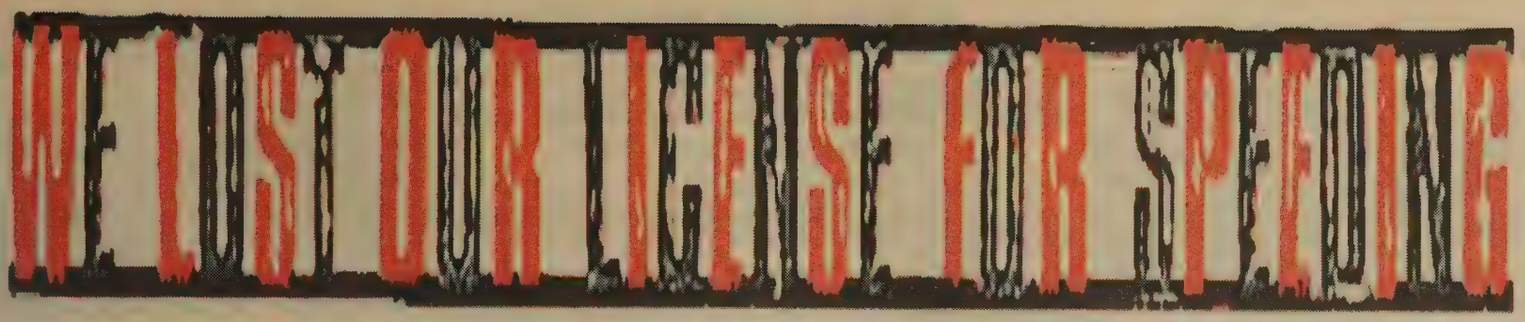
WE LOST OUR LICENSE FOR SPEEDING



Ad Of The Year—Power Computing's Going-Out-Of-Business Sale

In 1989, Guy Kawasaki wrote in *The Macintosh Way*:

"Somewhere along the line...the baton passed from Apple, the company, to Macintosh, the computer. The Macintosh Way of doing business means doing the right thing and doing things right. It combines the informality of the H-P Way and the flair of the Apple Way with an idealistic faith in employees, customers, and products. It is a way of doing business for people who are foolish or brave enough to try to make a difference in a world of mediocrity."

Rarely has the Macintosh Way been less in evidence at Apple than in 1997. Among the many depressing moments that beset the Macintosh community during the year, one of the top contenders is the one depicted on our cover—the keynote address of Macworld Boston in August, with the instant media icon of Bill Gates' image dwarfing Steve Jobs.

Actually, despite all the Antichrist jokes, a lot of the news was good. Microsoft was making an investment in Apple. Apple and Microsoft were going to stop squabbling about a lot of stuff, and Microsoft was committing to the continued existence of Office on the Mac platform.

But at the announcement that Internet Explorer would not only be bundled with all future Macs but would be preinstalled as the default browser, the crowd of Mac zealots erupted in boos.

And Jobs wagged his finger at them as if they were errant children.

The subsequent press conference was no love-fest either, as journalists asked hard-hitting questions about what wasn't addressed at the keynote—specifically, the future of Macintosh clones, which were the main thing keeping the platform alive in recent times. Jobs had given the press conference a miss, leaving it to nervously squirming executives to spout weaselwords and leave little hope of any good outcome.

The other shoe finally dropped less than a month later, when Apple announced that it was buying out Power Computing's Mac license and that Power would cease selling Mac clones by year's end. The howling from developers on the semper.fi list (originally created to foster dialogue between developers and Guy Kawasaki) was such that the list was first temporarily, than permanently, shut down.

Kawasaki himself wrote at the time: "Basically, our clone business was so badly implemented that we were literally losing money with each one that was sold. Surely this wasn't the only thing we did wrong, but it was a big part of our problems.

"Had we not bought the license back we would have continued to lose money, and therefore the public's confidence that we would survive. And Apple would have died—taking all the clone manufacturers with us. Now at least we have a shot.

"The decision was very difficult and not without great risk. But continuing along as things are was just as risky...The issue was very complex, and the decision was made with a lot of gnashing of teeth, but it's done, and we're moving on. I hope this provides some clarification. I close with this thought: Doubt is not the opposite of faith. Doubt is part of faith."

Never officially acknowledged amid all the corporate floundering and posturing was the central issue: Apple's treatment of Power was a clear statement that any business relationship with the former was contingent on the next shift in the wind in Cupertino. Under such conditions, the stability of Microsoft started looking pretty appealing to users, developers, and dealers alike.

The last months of the year gave cause for guarded optimism. The new G3 PowerMacs shipped, delivering excellent bang for the buck. Apple has belatedly done what it should have done years ago—allowed people to order custom-configured Macs online—and the market responded by purchasing $12 million worth of Mac merchandise in the site's first month.

Mac Vs. Apple?

The Macintosh community has often been at odds with Apple, particularly when the latter's Grand Vision parted company with what the users wanted. One of our earliest cover stories proclaimed: "They want to fatten your Mac—with or without Apple's blessing." (Apple eventually got the message and offered Fat Macs.)

Now as in 1984, the survival of the Mac will require, not simply unsubstantiated cheerleading, but a lively collaboration among all the Macintosh stakeholders—Apple itself, but also the customers, the developers, the user groups, the publications, the online sites, and the retail channels.

Everyone, in short, who travels the Macintosh Way. With or without Apple's blessing. ■

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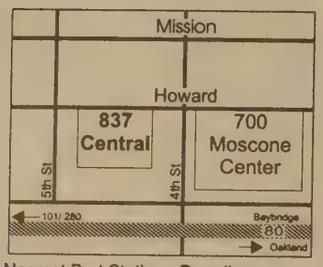

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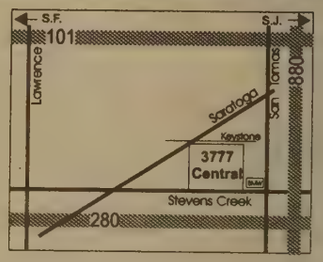

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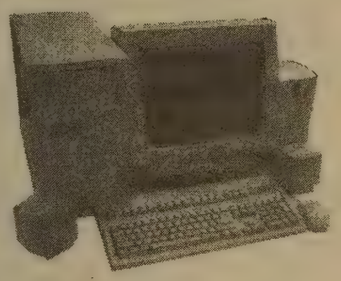

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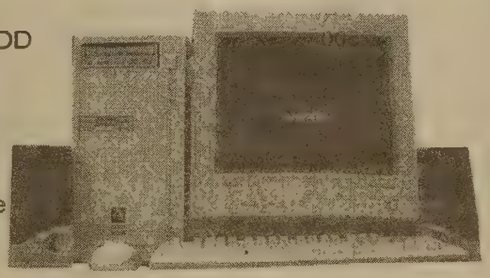

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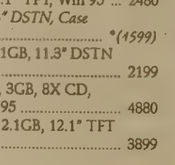

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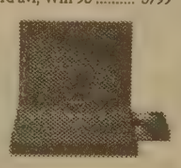
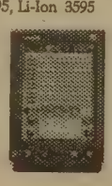
TWINHEAD



Slimnote 9133T:
P-133, 16MB, 10X CD, 1.3GB, 33.6 modem, 12.1" TFT, Win'95, Li-Ion.....2285
Slimnote 9133T:
P-133, 2.1GB, 10X CD, 33.6 modem, 12.1" TFT, Win'95, Li-Ion, w. 16MB / 32MB 2359/2513
Slimnote 9166TH: P-166MMX, 32MB, 2.1GB, 10X CD, 1024x768, 12.1" TFT, Win'95, Li-Ion 2745
Slimnote 9166TZ: P-166MMX, 32MB, 2.1GB, 10X CD, 12.1" TFT, Win'95, Li-Ion 2485
Slimnote 9T133CZ: P-133, 16MB, 1.4GB, 20X CD, 12.1" DSTN, Win'95, Ni-MH 1895
Slimnote 9T166CZ: P-166, 16MB, 1.4GB, 20X CD, 12.1" DSTN, Win'95, Ni-MH 2035
Upgrades for 9T133CZ & 9T166CZ:
- 16MB RAM 95
- fr. 1.4GB to 2.1GB (w. purchase of notebook) 85

Slimnote EX200TG: P-200, 32MB, 2.1GB, 20X CD, 1024x768, 13.3" TFT, 4MB VGA, Win'95, Li-Ion 3365
Slimnote EX233TG: P-233, 32MB, 2.1GB, 20X CD, 1024x768, 13.3" TFT, 4MB VGA, Win'95, Li-Ion 3595

US Robotics



*Palm Pilot Personal 512k ..... *(235)*
*Palm Pilot Professional 1MB..... *(339)*
Accessories:
(10101U) Slim Leather Case 25
(10103U) Deluxe Leather Case 58
(10108U) Pen 3-pk 7.99
(10109U) Cradle for Windows 29
(10117U) Belt Crib Case 24

OTHER ACCESSORIES

Kensington: Notebook Carrying Case 28.95
Kensington: Wet Suite for Palmtops 11.50
*Kensington: Saddle Bag - Brown ..... *(59.95)*
Port: DEFCOM I (motion-sensor) 49
Targus: Leather Convertible Backpack (CLC-1) 89
*Targus: Notepad Case (CN01) ..... *(24.95)*
Targus: Notepad Plus (CNP-1) 45
Targus: Player Pad Case (23125) 49.95
Targus: Universal Carrying Case (CUN-1) 65
Targus: Universal APS Case (CUN-1A) 66

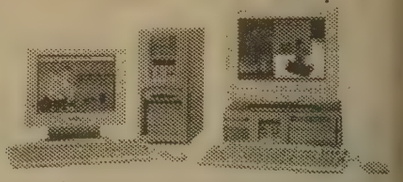
WORKSTATIONS / SERVERS

AST

Bravo LC6233 2000C/95:
PII-233, 32MB, 2GB, 16X CD, Win'95 1639
Bravo MS4300C/95/MT: PII-266, 32MB, 512k, 4.3GB, 24X CD, 2MB VGA, Win'95 2289
Bravo MS4300C/NT/MT: PII-300, 32MB, 512k, 4.3GB, 24X CD, 2MB VGA, Win NT 2699
Bravo MS5200 3000C/95: P-200MMX, 32MB, 3GB, 512k, 16X CD, 2MB VGA, Win'95 1689

HEWLETT PACKARD

• MT=Tower •DT=Desktop

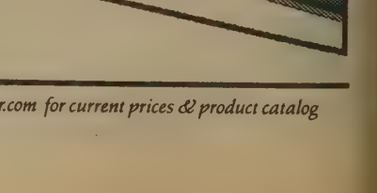


Brio/MT (D5414A): P-166MMX, 16MB, 256k, 2.1GB, 16X, 56k modem, S3 Trio64 V2 1MB, Win'95 ... 1400
Brio/MT (D5415A): P-200MMX, 32MB, 256k, 2.1GB, 24X, 56k modem, S3 Trio64 V2 1MB, Win'95 1650
Brio/MT (D5416A): P-233MMX, 32MB, 256k, 6GB, 24X, 56k modem, Matrox 4MB, Win'95 2085
Brio/MT (D5557A): P-200MMX, 32MB, 256k, 2.1GB, 16X, S3 Trio64 V2 1MB, Win'95 1435
Kayak XA/DT (D3990A): P-166MMX, 16MB, 512k, 2.5GB EIDE, 8X CD EIDE, Audio, Matrox 2MB, 10/100 NIC, Win'95 1650
Kayak XA/MT (D3994N): P-166MMX, 32MB, 512k, 2.5GB, 8X CD, Audio, Matrox 2MB, 10/100 NIC, Win NT Workstation 4.0 1915
Kayak XU/MT (D4691N): PII-266, 32MB, 512k, 2.1GB SCSI, 24X, Audio, Matrox AGP 4MB, 10/100 NIC, Win NT Workstation 4.0 3425
Kayak XW/MT (D5505N): PII-266, 128MB, 512k, 4.5GB SCSI, 24X, Audio, Accel Eclipse 32MB, 10/100 NIC, Win NT Workstation 4.0 7399

NETSERVERS:
E40/MT (D4938A): Pro-180, 16MB, 256k, 2.1GB SCSI, 16X CD, 10/100 NIC 2049
E45/MT (D4974A): PII-233, 32MB, 512k, 4.2GB SCSI, 24X CD, 10/100 NIC 2600
LD Pro/MT (D4962A): Pro-200, 32MB, 256k, 2.1GB SCSI Hot-Swap, 12X CD, 10/100 NIC 3250
LH Pro/MT (D4841B): Pro-200, 32MB, 256k, 12X - (D3582C): w/ three 2.1GB UW-SCSI Hot-Swap RAID 1 Disk Mirroring ..... 6775 add 2307

IBM

300GL: P-166, 16MB, 2.5GB, 16X CD, Win'95 1145
300XL: PII-233, 32MB, 2.5GB, 16X CD, Win'95 .. 2050
300XL: PII-266, 32MB, 4.3GB, 16X CD, Win NT . 2650
MPro3D IntelliStation: PII-266, 128MB, 512k, 16X CD, 4.3GB UWSCSI, Audio, 10/100 NIC, Win NT 5599
ZPro3D IntelliStation: Pro-200, 64MB, 256k, 16X CD, 4.5GB UWSCSI, Audio, 10/100 NIC, Win NT ... 4125



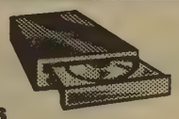
NO Returns, Only Satisfaction Warranty from Manufacturers.

**(sale price) ..... SPECIALS, limited to stock on hand*
Prices subject to change without notice.

http://www.centralcomputer.com for current prices & product catalog

HARDWARE

1. CD DRIVES & SOUND



ADDONICS
- 12X Parallel Port CD Rom w. Sound 299
- 20X Max Pocket CD Drive PCMCIA 315
- 20X Pocket Parallel Port 275
- 24X External CD Drive 279

CREATIVE LABS
- Midi Kit + Software 65
- Sound Blaster 16 PnP 3D (w/o IDE) 49
- Sound Blaster 64 AWE oem / Value Pak 79/95
- Sound Blaster 64 AWE Gold 179

MITSUMI
- FX1402S2 16X IDE Int 69
- FX240S 24X IDE Int 79

NEC
- CDR-1610 16X SCSI Int oem 95
- CDR-1800 24X IDE Int oem 85

Pioneer
- DR511 24X IDE Int 85
- DVD101 IDE Int 189
- DVD301 SCSI Int 279

PLEXTOR
- PX-12CSi 12X SCSI Int (Caddy) 219
- PX-20X SCSI Int (Tray) 199
- PX-32X SCSI Int (Tray) 229

SAMSUNG
- SCR-2431 24X IDE Int 85

SONY
- CDU-611 24X IDE Int 85
- PRD-650 Portable 6X w. PCMCIA Kit 315

TEAC
- CD524E 24X IDE Int 85
- CD516S 16X SCSI Int 115
- CD532E 32X IDE Int 105

TOSHIBA
- DVD Drive IDE w. Kit oem 339
- 5701 12X SCSI Int 99
- XM6102B 24X IDE Int 85
- XM6202B 32X IDE Int 109

TURTLE BEACH
- Multi-Sound Fiji 20-bit / w. Digital I/O 275/329
- Multi-Sound Pinacle 20-bit / w. Digital I/O .. 375/425
- Tropez Sound 32 Voice 145
- Wave Table Sound 32 99

OTHERS
- CD Caddy 3.99
- CD Jewel Case for 1 / 2 / 3-CD 0.55/0.65/0.55
- CD Wetsuit for 12 / 24-CD (Kensington) . 9.95/13.95
- Decoder Card 129
- ESS 16 IDE 3D Sound Card 25
- Gravis Ultrasound Plug & Play 135
- Gravis Ultrasound Pro, PnP 175
- J-Bond MF-719 Yamaha 3D 32 29
- *Television: Telesound EX16 IDE ..... *(68)*

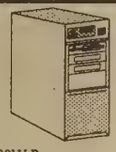
WRITABLE CD DRIVES:
- Adaptec Easy CD Creator Deluxe Software 89
- Elektroson Gear CD Creator Software 95
- HP C7110i Surestore 6X/2X IDE Int 399
- HP C7110e Surestore 6X/2X Parallel Ext 499
- Phillips Omniwriter Rewritable 6X/2X Int, oem / reg 459/499
- *Ricoh Rewritable 6X/2X SCSI Int ($100 Rebate) .... *(499)*
- Sony Spressa CDU928E/H 8X/2X IDE Int 329
- Sony Spressa 960 6X/2X SCSI Recordable 385
- Yamaha CDR-400 6X/4X Ext 569
- Yamaha CRW4001 EIDE Int, 6X Read, 4X Write, 2X RE-Write 599

- 3M or Pioneer CDR 74 min. / 10-pk 4.50/43
- HP Rewritable CDRW (C4431) 19.95
- HP CDR 74 min. (C4432) / 10-pk / 25-pk . 3.59/32/69
- Kodak CDR 74min. / 10-pk / 25-pk 3.99/35/79
- Ricoh CDRW 74 min. 17.95
- Sony CDR 74 min. / 10-pk 4.95/47
- Ricoh or TDK CDR 74 min. / 10-pk 4.50/43

SPEAKERS:
- Altec ACS45 w. Sub-Woofer 79
- Altec ACS51 / ACS52 / ACS53 ..... 65/85/125
- Altec ACS150 / ACS500 ..... 99/295
- Labtec Stereo LCS-150 / LCS-600 ..... 18.95/24.95
- Labtec 1002 (10W) 49
- Labtec 1224 Space Server 3D Stereo (10W) 69
- *MLF-CP55 Mini Speakers (4W) ..... *(4.99)*
- *Yamaha YST-M7 (5W) ..... *(39) 45*
- *Yamaha YST-M45 ..... *(59) 69*
- Yamaha Systems (45W) 169

Resellers CALL for wholesale prices!
- *HM2: Headset w. volume control ..... *(9.95)*
- *KC3: Headphone + Microphone ..... *(6.95)*
- *MC1: Pocket Size Microphone ..... *(5.95)*
- MC2: Condensed Microphone 9.95
- SD202: Full Range Speakers 120W 24.95
- *SD322: Sub-Woofer ..... *(35)*
- *SD688: Deluxe 3D Surround 360W ..... *(45)*
- *SD880: Amplified Stereo Speakers 200W ..... *(25)*
- *SD980: 3-Way Speakers, 180W ..... *(35)*

2. CASES



- #1: Baby AT w. 230W Power 39
- #2: Baby Tower w. 230W Power 29
- #3: IWC500 Mid Tower w. 230W Power 59
- #4: Mid Tower w. 250W Power 39
- #5: CF-8502A Mid Tower, 250W, Open Side 69
- #6: GT212 Mid Tower, 250W, Open Side, 2 Fans, White 105
- #7: GT210 Mid Tower, 250W, Black 109
- #8: Full Tower w. 250W Power, 2 Fans 85
- #9: CF-8501S Full Tower, 250W, Open Side 89
- #10: KS-A5561 Full Tower, 250W, Slide Open, 2 Fans 115
- #11: Full Tower, 300W, w. Wheels 149
- #12: GT312 Full Tower, 300W, Open Side, 2 Fans, PS/2 Power, White 149
- #14: Mini Tower w. 250W Power 47
- #15: Mid Tower w. IDE Mobile Rack 65
- #16: 701D Mini Tower w. 230W Power 39
- #17: 668A Full Tower w. 250W Power 69
- #18: 668B Mid Tower w. 250W Power 55
- #19: 668C Mini Tower w. 230W Power 39
- #20: Mini Tower w. 230W Power 47
- #A1: ATX CF-8502A Mid Tower, 235W, Open Side 79
- #A2: ATX Mini-mid Tower, 235W Power 79
- #A4: ATX T5 Mid Tower, 235W, Slide Open 79
- #A5: ATX CF-8501S Full Tower, 250W, Open Side . 99
- #A6: ATX GT-232XC Mid Tower, 235W 119
- #A7: ATX GT-312 Full Tower, 250W 145
- #A8: ATX PC-268A Desktop, 235W 75
- #A9: ATX PC-968A Mid Tower, 235W 79
- #A10: ATX PC-768A Full Tower, 250W 99
- #A12: ATX 668B Mid Tower, 230W 79
- #A13: ATX 668A Full Tower, 250W 95
- #A14: ATX IWQ500 Full Tower, 235W 99

HDD EXTERNAL CASING:
- CF731: 1 half ht SCSI, 50W 49
- CF751: 1 half ht SCSI, 50W 51
- CF732: 1 half ht SCSI-2, 50W 65
- CF733: 1 half ht SCSI-3, 50W 69
- CF7021: 2 half ht SCSI, 80W 75
- CF7022: 2 half ht SCSI-2, 80W 99
- CF7023: 2 half ht SCSI-3, 80W 105
- CF7041: 4 half ht SCSI, 200W 99
- CF7042: 4 half ht SCSI-2, 200W 125
- CF7043: 4 half ht SCSI-3, 200W 129
- CF7081: 8 half ht SCSI, 250W 195
- CF7083: 8 half ht SCSI-3, 250W 249
- CFCDO: CD-R IDE Parallel, 50W 59
- 1 half ht IDE Parallel 3.5", 50W 65

ANTEC
- KS-011+RPP3002: 19 Bay Server (9 front, 10 int. bay) 300W, Hot Swap + Redundant P/S, 2 Fans 569
- KS-011+RPT600: 19 Bay File Server (9 front, 10 int. bay) 300W, Redundant Vertical AT P/S, 2 Fans 459

SUPERMICRO
- 750A: ATX, Full Tower, 300W Power 205
- 750S: Full Tower w. 300W / 400W 195/235

3. CONTROLLERS

Adaptec
- 2940 SCSI PCI w. Kit oem 179
- 2940U SCSI PCI w. Kit oem / reg 189/229
- 2940UW Ultra-Wide-SCSI PCI Kit oem / reg .. 229/279
- AAA-131 Raid Single Channel 445
- AAA-133 Raid 3 Channel 689
- AHA3940 PCI Multi-Channel SCSI 399
- AHA3940UW Ultra-Wide-SCSI w. Kit 479
- APA1460A Slim SCSI Kit 149
- APA1460B Slim PCMCIA SCSI 165
- ASW-EZ SCSI 3.1 for Dos & Win 59
- ASW-EZ SCSI 4.0 for Win'95 69

ADVANSYS
- ABP5140 SCSI-2 ISA 8Mb/s 115
- ABP930 Ultra SCSI PCI 20Mb/s 135

ASUS
- AS300UW SCSI PCI & 16-bit audio adapter 215
- SC200 SCSI-2 PCI w. NCR chips 79

COREL
- Corel SCSI Software v2.5 85

DIAMOND
- Fire Port 40 Ultra SCSI PCI 159

initio SALE
- INI-9100 SCSI PCI PnP 69
- *INI-9100U SCSI PCI Kit, 20Mb/s ..... *(129)*
- *INI-9100UW Ultra-Wide SCSI PCI Kit ..... *(169)*
- *INI-9200U Dual SCSI PCI ..... *(215)*
- *INI-9200UW Dual Ultra-Wide SCSI PCI ..... *(259)*
- *INI-9520U Dual SCSI + Ether Combo ..... *(285)*
- *INI-9520UW Dual UW-SCSI + Ether Combo ..... *(335)*
- *INI-9400U Quad SCSI Ultra ..... *(395)*
- *INI-9400UW Quad Ultra-Wide SCSI ..... *(459)*

KOUWELL
- KW557A IDE/ 1.44/ 2S (FIFD)/ ECP/ 1G 22

LDP (LOMAS DATA)
- *Fast SCSI-2 PCI 10Mb/s ..... *(99)*
- *Fast PCI 20, Ultra-Wide-SCSI 40Mb/s ..... *(195)*

NEW MEDIA
- Basic SCSI DB25 PCMCIA 99
- Bustoaster SCSI-2 PCMCIA 165

SIIG (5YR. WARRANTY)
- CN2419 EIDE/ 4HD/ 2FD/ 16-bit ISA 49
- CN2420 EIDE/ 4HD/ 16-bit ISA 39
- CN2424 EIDE/ 4HD/ 2FD/ 2S 1P 1G/ 16550/ IEEE1284 62

OTHERS
- PROMISE EIDE 2300+ IDE/ 4HD/ 2S 1P/ 16550 ... 59

4. CPU

AMD
- AMD-K5-133 / AMD-K5-166 ..... 89/99
- AMD-K6-166 139
- AMD-K6-200 / Boxed w. 3 yr warranty 189/199
- AMD-K6-233 / Boxed w. 3 yr warranty 259/289

Cyrix (W. FAN)
- 6x86-P166+ (2.8V), boxed version 89
- 6x86L-P200+ (2.8V), boxed version 99
- 6x86MX-P166 / boxed version 119/139
- 6x86MX-P200 / boxed version 169/189

intel
- MMX-166Mhz Pentium® / w. 3 yr. warranty 139/139
- MMX-200Mhz Pentium® / w. 3 yr. warranty 229/245
- MMX-233Mhz Pentium® / w. 3 yr. warranty 319/335
- P54C-133Mhz Pentium® / w. 3 yr. warranty 99/*(103)
- P54C-150Mhz Pentium® / w. 3 yr. warranty .. 109/109
- P54C-166Mhz Pentium® 129
- P54C-200Mhz Pentium® 189
- Pentium® Pro 180Mhz w. fan & 256k 229
- Pentium® Pro 200Mhz w. fan & 256k 519
- Pentium® II 233Mhz w. fan / 3 yr warranty . 449/449
- Pentium® II 266Mhz w. fan / 3 yr warranty .. 589/589
- Pentium® II 300Mhz w. fan & 3 yr warranty 819

OverDrive®:
- Pentium® 83Mhz (fr 486-33 or DX2-66) 199
- Pentium® 133Mhz (fr P-60 / 66) 199
- Pentium® MMX166Mhz (fr P-100 / 133) 215
- Pentium® MMX180Mhz (fr P-90 / 120) 235
- Pentium® MMX200Mhz (fr P-100/ 133/ 166) 315

OTHERS
- Cooling Fan for 486 CPU 4.95
- Cooling Fan for Pentium® processor 6.95
- Edimax CPU Switch:
- CAS221 VGA, Keyboard, Mouse for 2PC 159
- CAS421 for 4PC (AT & PS/2) 235
- CAS601 for 6PC (AT only) 245

5. DIGITIZER

SUMMASKETCH (CALCOMP)
- *III 12x12, 4 or 6 button Cursor or Stylus ..... *(249)*
- III Pro 12x18, 4 button Cursor 465

WACOM
- *Art Pad II 4x5, w. Erasing Ultra Pen, PC ..... *(129)*
- Art Pad II 4x5, w. Erasing Ultra Pen, MAC 139
- Art Pad II 6x8, w. Erasing Ultra Pen, MAC 309
- *Art Z II 6x8, w. Erasing Ultra Pen, PC ..... *(299)*
- *Art Z II 6x8, w. Fractal Expression, PC ..... *(359)*
- Art Z II 6x8, w. Painter 5.0, PC 385
- Art Z II 12x12, w. Erasing Ultra Pen, PC 415
- Art Z II 12x12, for MAC 429
- Art Z II 12x12, w. Fractal Expression 479
- Art Z II 12x18, w. Erasing Ultra Pen, PC 685
- CT-0405 Pen Partner w. Corel Print & Photohouse . 95
- UC-520 4-button Pack 45
- UD-2 MAC Kit 45
- UP-201 Pressure Sensitive Stylus 49.95
- UP-701E Erasing Ultra Pen 64.95
- UP-801EW Erasing Ultra Pen 69.95

6. DRIVES

One Year Warranty on All Disk Drives

FLOPPY DRIVE:

TEAC
- 1.44MB 3.5" / w. frame 25/29

HARD DRIVE:

FUJITSU
- M3026AT 2.6GB 10ms 128k IDE DMA 175
- M3035AT 3.5GB 10ms 128k IDE DMA 199
- M3052AT 5.2GB 10ms 128k IDE DMA 265
- M2954QYF 4GB 8ms 512k Ultra-Wide SCSI 519
- M2949QYF 9GB 10ms 512k Ultra-Wide SCSI 899

IBM
- *DCAS-32160 2GB 8.5ms UW-SCSI, 5400rpm ..... *(225)*
- *DCAS-34330 4.3GB 8.5ms UW-SCSI, 5400rpm .... *(339)*

KINGSTON
- PCMCIA 260MB IDE, type III 375
- PCMCIA 340MB IDE, type III 445

MAXTOR
- 8.4GB 10ms Ultra DMA 359

Quantum SALE
(limit 1 per customer, while supplies last)
- **QM32160ST-S 2GB 10ms 128k SCSI-2 ..... 209**
- ST32160A 2GB 10ms 128k IDE DMA 175
- QM33240ST-A 3.2GB 10ms 128k IDE DMA 189
- QM34320ST-A 4GB 10ms 128k IDE DMA 245
- ST36400SE 6.4GB 9.5ms 128k IDE, 5400rpm 319
- Atlas-2 2275S 2.1GB Ultra-Wide SCSI 239
- QM33240ST-S 3.2GB 10ms 128k Ultra SCSI 279
- QM34320ST-S 4.3GB 10ms 128k Ultra SCSI 309
- Atlas-2 4550S 4.5GB 8ms 512k Ultra SCSI 559
- Atlas-2 4550W 4.5GB 8ms 512k UW-SCSI 569
- QM36480ST-S 6.4GB 10ms 128k Ultra SCSI 409
- *VK45W 4.5GB Wide SCSI (w. 5 yr warranty) ..... *(449)*

SAMSUNG
- WU32543A 2.5GB 10ms 128k IDE DMA 159
- VG33402A 3.4GB 10ms 128k IDE DMA 195

Seagate
- ST-32122A 2.1GB IDE DMA 159

* 5 year warranty for below drives *
- ST-32272N 2.2GB 9ms Ultra SCSI 349
- ST-32272W 2.2GB 9ms Ultra-Wide SCSI 379
- ST-34501W 4.5GB UW-SCSI, 10,000rpm 699
- ST-34572N 4.5GB 9ms Ultra SCSI 559
- ST-34572W 4.5GB 9ms Ultra-Wide SCSI 569
- ST-19101N 9GB Ultra SCSI, 10,000rpm 1095
- ST-19101W 9GB UW-SCSI, 10,000rpm 1125
- ST-19171N 9GB Ultra SCSI 915
- ST-19171W 9GB Ultra-Wide SCSI 945

**(sale price) ..... SPECIALS, limited to stock on hand*
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TOSHIBA
PCMCIA 262MB IDE 425
MK2103MAV 2GB 13ms 128k IDE 2.5" 229
MK3205MAV 3.2GB 13ms 128k IDE 2.5" 349

WESTERN DIGITAL
SALE

(limit 1 per customer, while supplies last)
WD-23200 3.2GB 12ms 128k IDE 189

WD-12100 2.1GB 12ms 128k IDE 169
WDC-AC24300 4.3GB 9.5ms IDE DMA 245
WDC-AC34300 4.3GB IDE DMA 239
WDC-AC35100 5.1GB IDE DMA 265
WDC-AC36400 6.4GB IDE DMA 299

* 5 yr warranty for below drives *
WDC-E2170 2.17GB Ultra SCSI 349
WDC-E2170 2.17GB Ultra-Wide SCSI 379
*WDC-E4360 4.3GB Ultra SCSI ..... *(535)*
*WDC-E4360 4.3GB Ultra-Wide SCSI ..... *(545)*

REMOVABLE DRIVE:

iomega
Jaz Disk 1GB - Single / 3-pk / 5-pk 79/235/389
*Jaz Drive 1GB SCSI Int / Ext ..... *(275/369)*
Jaz Traveller 45
Zip Disk 100MB - Single / 3-pk 12.50/36
- 6-pk / 10-pk ..... 70/*(115)
*Zip Drive 100MB Parallel ..... *(135)*
Zip Drive 100MB IDE Int oem 99
Zip Drive 100MB SCSI Int oem / reg 135/145
*Zip Drive 100MB SCSI Ext ..... *(135)*
*Zip Drive 100 Plus (SCSI & Parallel) ..... *(185)*
Zip Zoom SCSI Accelerator Card for Ext 46

SYQUEST
SyJet 1.5GB IDE Int 279
SyJet 1.5GB Parallel 289
SyJet 1.5GB SCSI Int / Ext 279/289
1.5GB SyJet Cartridge 65

OTHERS
Mounting Frame for 3.5" Hard Drive / Floppy 4/4
Removable Case for 3.5" Hard Drive IDE 17
Removable Case for 3.5" Hard Drive IDE Metal 26
Removable Case for 3.5" HDD SCSI / w. Fan 17.50/19.50
Removable Case for 3.5" HDD Wide-SCSI 59

7. I/O CARDS

ADDONICS (QUICKPATH)
Flexport 22EX 2S/ 2P/ 16650 95
Flexport 42 4S/ 2P/ Bi-Dir/ 16550 95

KOUWELL
KW508-E Single Parallel Port 12
KW524-J 2S/ 2P/ 16550 23

SIIG
Cyberpro 2S Highspeed w. 16650 55
Cyberpro 4S Highspeed w. 16650 85
IO1809 2S/ 1P/ 16550 39
IEEE 1284 EPP/ ECP/ Parallel Port 32

SOCKET COMMUNICATION
PCMCIA Serial I/O 16550 149
PCMCIA Dual Serial I/O 215

STB 4-COM
4S/ 16-bit/ 16550/ support Com 1-8, IRQ 99

8. KEYBOARD

FOCUS
FK2001 104 for Win'95 26
FK7200 104 Trackball 27
FK8200 124 Key w. calculator 42
FK9200W 124 Key w. trackball & calculator 45

KEYTRONIC
104 Key - White / Black ..... *(24)/39
104 Key PS/2 26
104 Key PS/2 & AT Combo 28
104 Key Tag Along w. Mouse - White / Black 28/29
LT Touch Pad 85
Wireless IR Classic 104 58
Wireless IR Touchpad / Trackball 75/74

Microsoft
*Natural Keyboard oem ..... *(49)*

QTRONIX
Scorpius 104+ for Win'95 - White / Black 23/24
Scorpius 105 / w. Trackball 32/49

SIIG
Minitouch 81 Key, Click 45
W104 for Win'95 29
Wintouch 104 35

OTHERS
ANTEC 104 Key - White / Black 18/39
BTC 5100 Mini 80 Key 29
EZ Key Natural Keyboard 28.50
MAXI 101 Key 25
*MITSUMI 104 Model ZW ..... *(14.50)*

9. MEMORY

DIMM
4 x 72 - 60ns, 168-pin (32MB) 189
8 x 72 - 60ns, 168-pin (64MB) 299
16 x 72 - 60ns, 168-pin (128MB) 579
Unbuffer SDRAM 2 x 64 - 10ns (16MB) 49
Unbuffer SDRAM 4 x 64 - 10ns (32MB) 79
Unbuffer SDRAM 8 x 64 - 10ns (64MB) 249
Unbuffer SDRAM 16 x 64 - 10ns (128MB) 499
SDRAM w/ECC 8 x 72 - 10ns (64MB) 289
SDRAM w/ECC 16 x 72 - 10ns (128MB) 569

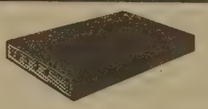
SIMM
4 x 9 - 60ns (4MB) 22
1 x 36 - 60ns, 72-pin (4MB) 29
2 x 36 - 60ns, 72-pin (8MB) 49
4 x 36 - 60ns, 72-pin (16MB) 65
8 x 36 - 60ns, 72-pin (32MB) 119
16 x 36 - 60ns, 72-pin (64MB) 239
EDO 1 x 32 - 60ns (4MB) 12
EDO 2 x 32 - 60ns (8MB) 19
EDO 4 x 32 - 60ns (16MB) 35
EDO 8 x 32 - 60ns (32MB) 69
Non Parity 1 x 32 - 60ns (4MB) 13
Non Parity 2 x 32 - 60ns (8MB) 20
Non Parity 4 x 32 - 60ns (16MB) 39
Non Parity 8 x 32 - 60ns (32MB) 75
Non Parity 16 x 32 - 60ns (64MB) 219

NOTEBOOK MEMORY (3RD PARTY)
for Acernote 374, Nuovo 971/ 972
- 8MB / 16MB / 32MB 95/145/499
for AST Ascentia 950N
- 8MB / 16MB 115/165
for AST Ascentia J30 / J50
- 8MB / 16MB / 32MB 85/139/258
for AST Ascentia P30/ P50
- 8MB / 16MB 115/175
for Compaq Armada 4120/ 4130
- 8MB / 16MB / 32MB 95/155/269
for Compaq Contura 410/ 420/ 430
- 4MB / 8MB / 16MB 75/99/155
for DEC HiNote 433/ 450/ 475
- 4MB / 8MB / 16MB 59/89/145
for HP Omnibook 5000/ 5500
- 8MB / 16MB / 32MB 109/165/285
for IBM Thinkpad 365X/ 560/ 760EX/ ED/ EL
- 8MB / 16MB / 32MB 89/155/235
for NEC Versa 6030X/ H
- 8MB / 16MB / 32MB 105/165/295
for Panasonic CF62EX/ 25EX
- 8MB / 16MB / 32MB 95/145/499
for TI TravelMate 6020/ 6030
- 8MB / 16MB 99/169
for Toshiba T1900/ T4500/ T200CS
- 4MB / 8MB / 16MB 89/109/165
for Toshiba T2100 series
- 4MB / 8MB / 16MB / 24MB 65/89/135/195
for Toshiba Portege 610CT
- 8MB / 16MB / 32MB 89/130/249
for Toshiba Portege 650/ 660CDT
- 8MB / 16MB / 32MB 75/120/230
*for Toshiba Tecra 700 - 32MB ..... *(235)*
for Toshiba Tecra 710/ 720/ 730CDT
- 8MB / 16MB / 32MB 89/130/249
for Toshiba Satellite 430CDS/CDT/ 100/ 200CDS/CDT
- 8MB / 16MB / 32MB 89/130/249

PCMCIA FLASH RAM CARD
4MB / 8MB / 10MB / 16MB / 20MB 125/165/179/225/259

PRINTER MEMORY
For HP Laser II / IID
- 1MB / 2MB / 4MB 89/119/175
For HP Laser III / IIIP / IIID
- 1MB / 2MB / 3MB / 4MB 75/105/135/165
For HP Laser 4L - 1MB 49
For HP Laser 4 / 4M / 4Si / 1200C
- 4MB / 8MB 55/89
For HP Laser 4+ / 4V / 5 / 5N / 5P / 5Si / 6P / 1600C
- 4MB / 8MB / 16MB / 32MB 49/69/105/199
For HP Laser 5L / 6LXi
- 4MB / 8MB 79/109
For HP Laser 4000
- 8MB / 16MB / 32MB 69/99/219
For Panasonic KX-P4410 / 4420 / 4430 / 4450i
- 1MB / 2MB / 4MB 79/99/155

10. MODEMS & FAX



APOLLO
PCMCIA 56k w. AT&T chips 135

BOCA
SALE

(5-in-1 multimedia)
SE14SRS 14.4 Sound Expression Int ..... *(59)
SE34SRS 28.8 Sound Expression Int ..... *(99)

CREATIVE LABS
Modem Blaster Flash 56k Voice, Speaker Phone Int 125

DIAMOND
Supra Express 33.6 Fax PnP Int oem / reg 65/75
Supra Express 33.6 Fax PnP Ext 95
Supra Express 56k Fax PnP Int oem / reg 99/115
Supra Express 56k Fax PnP Ext 135

Hayes
*Accura 33.6 Fax Int / Ext ..... *(125/149)*
Accura 56k Int / Ext 159/179
Optima 33.6 v.34 Fax Int / Ext 189/199
*Optima 288 v.34 PCMCIA w. EZ jack ..... *(145)*
*PC288HC 28.8 v.34 Fax 230K DTE Int ..... *(195)*
*PC288MT 28.8 v.34 Fax Ext ..... *(149)*
*PM288HC 28.8 v.34 Int ..... *(69)*
PM336HC Int / PM336MT Ext 95/115
PM56HC Int / PM56MT Ext 145/165

JATON
Explorer 56k X2 Fax/ Voice/ Speaker Phone Int 79

MEGAHERTZ
*XJ1336 PCMCIA 33.6 Flash upgradable ..... *(175)*
*XJ1560 PCMCIA 56k ..... *(215) 224*
XJ4366M PCMCIA 33.6 cellular w. Motorola cable 249
XJ4336 Cellular Capable 33.6 225
*XJ5560 Cellular Capable 56k ..... *(249)*

MICROCOM
*Deskporte 28.8P v.34 Fax Ext Parallel ..... *(125)*
*Deskporte 28.8S v.34 Fax Ext ..... *(95)*
Officeporte 33.6 Voice ASVD Ext 155

MOTOROLA
SALE

BitSerfer #1749 Pro ISDN Multilink PPP Ext .... *(299)
BitSerfer #1750 ISA ISDN ..... *(199)
BitSerfer #1994 Pro ISA for ISDN ..... *(298)
BitSerfer Pro ISDN Easy Ext ..... *(275)
Mobile Serfer 56k PCMCIA 169
Modem Serfer 33.6 Int / Ext ..... *(75/95)
Modem Serfer 56k Int / Ext ..... *(94/109)
Montana PCMCIA 33.6 ..... *(165)
- w. cellular cable ..... *(185)
NT1D Network Terminator 165
Online Serfer 28.8 Fax Int / Ext ..... *(65/69)
Premier 33.6 Int / Ext ..... *(149/169)
Voice Serfer 33.6 Int / Ext ..... *(99/115)

SIMPLY TECHNOLOGY
Communicator 56k PCMCIA Voice & Cellular 199

US Robotics
SALE

Courier I-Modem #U w. Analog Int / Ext 239/285
Courier I-Modem #2 v.34 w. NT1 Int / Ext ... 259/335
*Courier V. Everything 56k Int / Ext ..... *(199/225)*
Sportster 28.8 Win Modem Int 75
*Sportster v.34 33.6 Fax Int oem / reg ..... *(89/99)*
*Sportster v.34 33.6 Fax Ext ..... *(139)*
Sportster v.34 33.6 Fax/ Voice/ Mail/ Speaker Phone Int oem / reg 99/129
Sportster v.34 33.6 Fax/ Voice/Mail/Speaker Ph Ext159
Sportster ISDN 128k Int 215
Sportster 56k Int oem / reg 145/165
Sportster 56k Ext 185
Sportster 56k w. Voice Int / Ext 179/195
Total Control Modem Pool/8 2150
Total Control Modem Pool/16 4250

WISECOM
SALE

(5 year warranty)
3314-JS3 33.6 Data Fax/ Voice Int (Rockwell) 54
3314-JS7 33.6 Data Fax/ Voice Int (Davidcom) 49
5614-JS3 56k Data Fax/ Voice Int (Rockwell) . 86
5614-WD8 56k X2 Data Fax/ Voice Int (TI) ... 84

XIRCOM
*CM-33 33.6 Fax PCMCIA ..... *(159)*
*CM-56G 56k PCMCIA Global Access ..... *(189)*

ZOOM (7 YR WARRANTY)
*#2805 33.6 Fax Int ..... *(95)*
*#2836 33.6 Fax Ext ..... *(105)*

11. MONITORS

Monitors on Display at our stores for your comparison

Acer
*78iE 17" 1600 x 1200 .26 NI ..... *(525)*

ARTMEDIA (SONY OEM)
*TX1664 15" 1280 x 1024 .25 NI ..... *(299)*
TN1885 17" 1600 x 1280 .25 NI 689
TX1864 17" 1280 x 1024 .25 NI 549
TN2185T 20" 1600 x 1200 .30 NI 1169
GT-960T 20" 1600 x 1200 .25 NI 1389

HITACHI SuperScan®
*CM500U 15" Flat 1280 x 1024 .28 NI, 65hz ..... *(289)*
CM620U 17" Flat 1280 x 1024 .28 NI 545
CM630U 17" Flat 1600 x 1200 .28 NI 645
CM751 19" 1600 x 1200 .26 NI, 75hz 999
CM2011M 20" 1600 x 1200 .28 NI 1165
CM800U 21" 1600 x 1200 .22 NI 1349
CM802U 21" 1600 x 1200 .22 NI 1495
CM803U 21" 1800 x 1440 .22 NI, 77hz 1545

IBM
G41T 14" Touch Screen Monitor .28 895
G50T 15" Touch Screen Monitor .28 985
G70 17" 1280 x 1024 .28, 60hz, FST 785
G70T 17" Touch Screen Monitor .28 1465
P70 17" 1600 x 1200 .26, 60hz 995
G200 20" 1600 x 1200 .28, 60hz 1385
P200 20" 1600 x 1280 .31, 60hz 1785
P201 20" 1600 x 1200 .26mm, 85hz 2445

Nyana
SALE

(3 Year warranty)
MF-8515G 15" 1280 x 1024 .28 NI 285
MF-8617E 17" 1600 x 1200 .26 NI, 69hz 535
MT-9017E 17" 1600 x 1200 .25 NI, 72hz 625
MF-8721 21" 1800 x 1440 .27 NI, 74hz 1165
MT-9021E 21" 1600 x 1280 .30 NI, 76hz ... 1125
MT-9221E 21" 1800 x 1440 .28 NI, 74hz ... 1295

S-901GT 19" 1600 x 1200 .26mm NI 829

IMPRESSION
3 Plus 14" 1024 x 768 .28 NI 165
5 Plus 15" 1280 x 1024 .28 NI 215
7 Plus 17" 1280 x 1024 .28 NI 415
Vienna Pro 17" 1600 x 1280 .25 NI 559

KFC
*CA1515DS 15" Flat 1280 x 1024 .28 NI ..... *(225)*

MAG
*DX15T 15" 1280 x 1024 .25 NI ..... *(339)*
*DJ702 17" 1280 x 1024 .26 NI, 65hz ..... *(569)*
*DX700T 17" 1280 x 1024 .25 NI ..... *(619)*

MAXTECH
(3 Year warranty)
*XT-7800 17" 1280 x 1024 .28 NI ..... *(445)*

NANAO
*FX-C5 17" 1280 x 1024 .26 NI ..... *(665)*
TX-C7S 17" 1600 x 1200 .25, Trinitron 999
TX-D7S 20" 1600 x 1280 .30 NI 1675
FX-E8 21" 1600 x 1280 .26 NI 2245

NEC
A500 15" 1280 x 1024 .28 NI 329
E500 15" 1280 x 1024 .25 NI 369
M500 15" 1280 x 1024 .25 NI 379
A700 17" 1280 x 1024 .28 NI 599
E700 17" 1600 x 1280 .25 NI 679
*M700 17" 1280 x 1024 .25 NI ..... *(759)*
P750 17" 1600 x 1200 .25 NI 849
*E1100 24" 1600 x 1200 .28 NI ..... *(1299)*
*P1150 24" 1600 x 1200 .25 NI, 75hz ..... *(1445)*
XM3750 37" 1024 x 768 Multimedia 5475
XP3778 37" 1280 x 1024 Data 7795

NOKIA
*447L 17" 1024 x 768 .28 NI ..... *(569)*
447XAV 17" 1600 x 1280 .25 NI 715

**(sale price) ..... SPECIALS, limited to stock on hand*
Prices subject to change without notice.

http://www.centralcomputer.com for current prices & product catalog

WISHING YOU A HAPPY NEW YEAR

447Xi 17" 1600 x 1280 .25 NI ..... *(689)
445XAV 21" 1600 x 1280 .26 NI 1845
445Xi 21" 1600 x 1200 .26 NI, TCO95 ..... *(1425)
445XPro 21" 1800 x 1440 .21 MP 1549

OPTIQUEST

V655 15" 1280 x 1024 .28 NI, Digital 329
V775 17" 1600 x 1200 .26 NI 625
V95 19" 1600 x 1280 .26 NI 799
2082DC 20" 1600 x 1200 .28 NI 1199

PRINCETON

EO70 17" 1280 x 1024 .28 NI 435
EO75 17" 1600 x 1280 .26 NI 549
EO90 19" 1600 x 1200 .26 NI 799
Ultra 17+ 17" 1600 x 1280 .28 NI ..... *(559)
AR2.7AV 29" 800 x 600, 38Khz max, video in w/ scan converter, speakers 949

RELISYS

RE451 14" 1024 x 768 .28 NI 139

SAMSUNG

17GLSi 17" 1600 x 1280 .26 NI, TCO92 ..... *(669)

SCEPTRE

(3 Year Warranty)
P401 14" 1024 x 768 .28 NI, Digital ..... *(165)
P511 15" 1280 x 1024 .28 NI, Digital ..... *(215)
P73 17" 1280 x 1024 .28 NI, Digital 419
P73A 17" 1280 x 1024 .26 NI, Digital 465
P73B 17" 1280 x 1024 .26 NI, Digital, Black 479
P75A 17" 1600 x 1200 .26 NI, Digital ..... *(515)

LCD PANEL: (1 yr warranty)

CD-111S 11.3" DSTN, 800 x 600, 64k color 875
CD-1112T 12.1" TFT, 800 x 600, 256k color 1725
FT15 15" TFT, 1024 x 768, color 2499

SHAMROCK

SRC-1407 14" 1024 x 768 .28 NI, Digital 179
SRC-1502L 15" 1280 x 1024 .28 NI, Digital 215
SRC-703LD 17" 1280 x 1024 .28 NI, Digital 459
SRC-705 17" 1600 x 1280 .26 NI, Digital 485

SONY

CPD-100ES 15" 1280 x 1024 .25 NI 349
CPD-100GS 15" 1280 x 1024 .25 NI 369
17SEII 17" 1600 x 1200 .25 NI PnP ..... *(819)
CPD-200GS 17" 1280 x 1024 .25 NI 679
CPD-200SX 17" 1280 x 1024 .25 NI, 60hz, PnP 615
GDM-200PS 17" 1600 x 1280 .25 NI 839
20SEII 20" 1600 x 1200 .25 NI 1525
CPD-300SFT 20" 1280 x 1024 .30 NI, 80hz ..... *(1169)
GDM-400PS 19" 1600 x 1280 .25 NI 1165
GDM-500PS 21" 1600 x 1200 .28 NI 1685

TVS

9" 1024 x 768 VGA Mono 119

ViewSonic

E641 14" 1024 x 768 .28 NI 205
E655 15" 1024 x 768 .28 NI 279
15GA 15" 1280 x 1024 .28 NI, Speaker Phone ..... *(375)
15GS 15" 1024 x 768 .28 NI 305
EA771 17" 1280 x 1024 .28 NI PnP 565
G771 17" 1280 x 1024 .27 NI 535
GT770 17" 1280 x 1024 .25 NI 645
P775 17" 1600 x 1280 .25 NI ..... *(599)
PT770 17" 1600 x 1280 .25 NI ..... *(629)
PT775 17" 1600 x 1280 .25 NI, Sonictron 725
G800 20" 1600 x 1280 .28 NI ..... *(1015)
GT800 20" 1600 x 1280 .20 NI, Sonictron 1129
G810 21" 1600 x 1280 .25 NI ..... *(1349)
P810 21" 1600 x 1280 .25 NI ..... *(1219)
P815 21" 1800 x 1440 .25 NI ..... *(1435)
PT813 21" 1600 x 1280 .28 NI ..... *(1389)
29GA 29" 1280 x 1024 .75 stripe pitch ..... *(2195)

VIEWTRONIC

DX-1764Q 17" 1280 x 1024 .26 NI 419

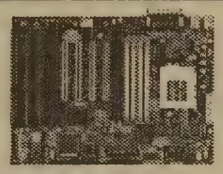
WYSE

WY-15E 15" 1280 x 1024 .28 NI 399
WY-17E 17" 1280 x 1024 .28 NI 645
WY-17PS 17" 1280 x 1024 .25 NI 825
WY-55 Terminal 14" Amber/ Green/ White ..... 275 ea.
WY-60 Terminal 14" Amber/ Green/ White ..... 385 ea.
WY-65 Terminal 14" Amber/ Green/ White ..... 345 ea.
WY-150 Terminal 14" Amber/ Green/ White ..... 325 ea.

ACCESSORIES:

VGA Monitor Splitter - 4 Port / 8 Port 155/195
VGA & Keyboard Switch 4 Way 19.95
VGA, KB & Mouse Switch - 2 Way/ 4 Way 24.95/34.95
VGA Switch 1 to 4 Way 13.95

12. MOTHERBOARD



ASUS (W/O CPU)

P2L97 ATX, 440LX chipset ..... *(195)
P2L97S ATX, 440LX chipset, SCSI ..... *(279)
P2L97DS ATX, Dual, 440LX chipset, SCSI 419
P55T2P4 P-200, 512k, PCI, AT 135
TX97 512k, TX chipset, Dimm 159
TX97E 512k, TX chipset, 4 Simm/ 2 Dimm 162
TX97X ATX, 512k, TX chipset, Dimm 162
TX97XE ATX, 512k, 4 Simm/ 2 Dimm 165
- TX97XE w. Sound 185
TXP4 512k, TX chipset, AT 139
XP55T2P4 ATX, P-200, PCI, 512k Burst SRAM 149

DFI (W/O CPU)

586ITB P-233, 512k, 430TX chipset 105
586ITX ATX, P-233, 512k, 430TX chipset 114
686IPK ATX, P-II, 440FX, ECC & Parity 165
P2XLX ATX, PII-233, 440LX, 1 AGP 185

FIC (W/O CPU)

KL-6011 Single P-II, 440LX, w. ATI AGP 369
PA-2007 P-200, 1MB, Via, AT, IDE I/O 119
PA-2011 ATX, P-200, 512k, Via 119
PT-2006 P-200, 512k, T3, IDE I/O 95
PT-2007 P-200, 512k, TX, AT, IDE I/O 115
PT-2011 ATX, P-200, 512k, TX, IDE I/O 125
VA-502 P-200, 512k, Via, IDE I/O 85

GIGABYTE (W/O CPU)

GA586TX2 512k, 430TX chipset, IDE I/O 119
GA586ATX3 ATX, 512k, 430TX, IDE I/O 125
GA586LX ATX, 440LX chipset, IDE I/O 189

intel (W/O CPU)

AN430TX ATX, 512k, w. Sound 185
AN430TX ATX, 512k, 2MB, SVGA, w. Sound 219
Atlanta P-II, 512k, 440LX / w. Sound 195/215
Atlanta P-II, 512k, 440LX, Sound, Xpert@Work ... 369
LT430TX ATX, 512k, IDE I/O 175

J-BOND (W/O CPU)

*PCI500C-G2: P-200, 512k, 4PCI, EIDE, 430HX ... *(109)
- w. AHA2940UW SCSI on board ..... *(199)
PCI500C-J: ATX, P-300, CPU Alarm 129
- w. AHA2940UW SCSI on board 259
PCI500CK: P-266, 512k, 430TX, USB 105
- w. AHA-2940U SCSI 175
- w. AHA-2940UW SCSI 219
PCI600A: ATX, Pro-200, 4PCI, IRDA, 440FX 189

M-TECH (W/O CPU)

Mustang R534E P-200, 512k, IDE I/O 115
M549 512k, Super TX chipset, 4 Simm/ Dimm 85
R539 512k, TX, 4 Simm/ 2 Dimm, IDE I/O 115
R543 Cyrix Media GX, 150Mhz, VGA/ Audio 159
R557 ATX, 512k, TX, 4 Simm/ 2 Dimm 125

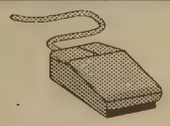
SUPERMICRO (W/O CPU)

P5MMA98 ATX, 512k, TX chipset 155
P5MMS98 512k, TX chipset 149
P6DNF Pro-200, Dual, 440FX, IDE I/O ..... *(339)
P6DLS P-II, Dual, 440LX, w. 2940UW SCSI ..... *(399)
P6SKEII ATX, P-II, 440FX, EIDE I/O 215
P6SKS ATX, P-II, 440FX, EIDE, SCSI 325
P6SNEII P-II, 440FX, IDE I/O 215
P6SNS Pro-200, w. 2940UW SCSI 299
SLA P-II, 440LX, EIDE I/O 239
SLS P-II, 440LX, 2940UW SCSI 329

TYAN (W/O CPU)

1564D Tomcat IV 512k, Dual, 430HX chipset 199
1564S Tomcat IV 512k, 430HX chipset 159
1571S 512k, 430TX chipset 137
1573S ATX, 512k, 430TX chipset 139
1680S P-II, 440FX, AT 229
1682D P-II, Dual, 440FX ..... *(275)
1686S ATX, P-II, 440FX chipset 239
1692DL ATX, Tiger II Dual, 440LX 335
1692S ATX, Tiger II Single 229
PS/2 Mouse Connector 6
Riser Card for Tahoe P-II 49

13. MOUSE & JOYSTICK



CIRQUE (TOUCH PAD)

Easy Cat PnP ..... *(25) 29
Power Cat w. Signature Pen ..... *(59) 65
Smart Cat w. Scroll & Zoom ..... *(39) 44

KENSINGTON

Expert Bus 5.0 115
Expert Serial & Trackball 5.0 ..... *(79.99)
Mouse in a Box ..... *(26.95)
Orbit Trackball ..... *(49)
Thinking Mouse Serial & PS/2 ..... *(55)

LOGITECH

Coredless Mouseman Pro 57
First Mouse Plus oem ..... *(24)
Mouseman Bus 64
Mouseman Plus 52
Mouseman Sensa 29
Serial Combo PC & PS/2 oem / reg 24/45
Trackman Live Cordless 125
Trackman Marble for Win'95 oem / reg 59/82

Microsoft

Bus 2.0 400dpi w. Bus Card oem / 5-pk 65/325
Combo Mouse (Serial + PS/2) 49.95
Easyball w. Freddi Fish CD 49.95
Home Mouse Serial 29
IntelliMouse 3.0 for Win'95 ..... *(69)
- oem Serial / oem PS/2 ..... 35/37
IntelliMouse Trackball 69.95
PS/2 2.0 oem 32
Serial 2.0 400dpi oem 27

MOUSE SYSTEMS

Mousel Serial w. pad 19
Omni Mouse 26
PC Mouse III (3-button optical) 49.50
PC Trackball II ..... *(35)
ProAgio (5-button serial) 39
Serial Bus Card (9IRQS), 5 Com 29

NEC

King Mouse 2-button ..... *(16.50)

QTRONIX

Libra 90 Pro Trackball 35
Opto-Mechanical Mouse 7.50

OTHERS

AGILER ATB-610 Serial Trackball 19.95
AGILER Bus 23
ANCER 3-button, Black 19
ANTEC Serial ..... *(6.95)
GENIUS Netmouse Serial / PS/2 ..... 19.95/19.95
GENIUS Netmouse Combo (Serial + PS/2) 24.95

JOYSTICK:

C.H. PRODUCTS

Flight Stick Pro 53
Pro Pedals 79.95
Virtual Pilot / Pro (Yoke) 68/75

LOGITECH

Wingman Extreme oem / reg ..... *(34)/45

Microsoft

Side Winder 1.0 29
Side Winder 3D Pro 44
Side Winder Force Feedback 145
Side Winder Gamepad 39
Side Winder Precision Pro 68

QUICKSHOT

QS123A Warrior 5 12
QS206 Sky Master 27
QS216 Strato Warrior 25
QS217 Command Pad 12

THRUSTMASTER

ACM Game Card 29.95
F-16 FLCS / F-16 TQS 125/129
F-22 Pro Flight Control 139
Flight Control System MKII 65
Flight Control System Pro 108
Formula T2 119
Rudder Control 109
UPROM 29.95
Weapon Control MKII 109
Wizzard (pinball controller + Royal Flush CD) 39
XL Action / w. EF2000 CD game 28/33.95

OTHERS

Cobra (by Mouse Systems) ..... *(9.95)
Cyclone 3D 38
PC Analog Pro 29
PC Gamepad / Pro (10-button) 17/29

14. NETWORK

Government & Education Pricing
Please Call for Details

3Com Network Working Partners *Networking Partner*

SALE

3C250A 100BaseTX Fast 12 Port Hub ..... *(995)
3C509B-TPC TP+BNC oem / reg ..... *(69)/115
3C509B Combo / 5-pk 119/499
3C515-TX Fast 10/100 ISA oem / reg 129/145
3C562D PC Card Modem 33.6 + Lan TPO ..... *(269)
3C562D PC Card Modem 33.6 + Lan Combo ..... *(299)
3C575-TX 10/100 Card Bus PC Card 155
3C589D PCMCIA TP / 5-pk ..... *(139)/675
3C589D PCMCIA Combo / 5-pk ..... *(179)/875
3C597-TX EISA 10/100 TP 239
3C882 Impact IQ ISDN v.32bis Ext ..... *(215)
3C892 Office Connect ISDN Net Modem 389
3C900 PCI TPO 105
3C900 PCI Combo oem / reg ..... *(89)/135
*3C905-TX PCI 10/100 TP oem / reg / 5-pk ... *(75/99/395)
3C16470 Link Builder 12 Port ..... *(299)
3C16405 Port Switch 40 Hub 12 Port ..... *(395)
3C16406 Port Switch 40 Hub 24 Port 895
3C16590 Dual Speed Hub 12 Port 1165
3C16591 Dual Speed Hub 24 Port 1795
3C16670A Superstack II Hub 12 Port ..... *(469)
3C16671A Superstack II Hub 24 Port ..... *(799)
3C16700 TPO Office Connect Hub 8 Port ..... *(95)
3C16701 TPC Office Connect Hub (8TP+BNC) .... *(129)
3C16702 Office Connect Hub (16TP+BNC) ..... *(215)
3C16703 Office Connect Hub 4TP Combo ..... *(89)
3C16704 Office Connect Hub 4TP ..... *(69)
3C16720 Office Connect 100 Hub 8 Port ..... *(475)
3C16730 Office Connect 10/100 Switch 4TP 1 Fast *(695)
3C16900A Switch 1000 24 Port 1 Fast ..... *(1999)
3C16901A Switch 1000 12 Port 1 Fast ..... *(1399)
3C16941A Switch 3000TX 8 of 100TX Port ..... *(1899)

adaptec

ANA-6901 PCI Full Duplex TP / Combo ..... *(85/99)
ANA-6910TX PCI Fast-TX, 32-bit bus 175
ANA-6940TX PCI Quartet Fast (4UTP) 745
ATM 25.6Mb/s PCI - 128k / 512k 299/389
ATM 155Mb/s PCI 512k UTP 725

ALLIED TELESYN

3012TR Workgroup Hub (12TP+AUI+BNC) 165
3016TR Workgroup Hub (16TP+AUI+BNC) 189

Check Out The

AFTER CHRISTMAS

SALE Items at Discount Prices!

*(sale price) ..... SPECIALS, limited to stock on hand
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3024TR Workgroup Hub (24TP+AUI+BNC) 249
MC12T UTP to BNC Conversion Kit 119
MR415T Mini Hub 4 Port ..... *(49) 54
MR815T Mini Hub 8 Port ..... *(59) 64
MR820TR Microhub 8 Port (8TP+AUI+BNC) 115
MX26F Fiber Optics Transceiver 145
MX40F Fiber Optics Transceiver 139

APOLLO

PCMCIA LAN Ethernet Adapter Combo 79

ARTISOFT

Extra Mail for Win'95 215
I-Share 2.5, 32 sessions (internet for Lantastic) 179
Lantastic 7.0 Single - CD / FD 85/89
Lantastic 7.0 10-user - CD / FD 355/359
Lantastic 7.0 1-user Add On 129
Lantastic 7.0 Starter Kit 2-user - CD+FD 249
Lantastic 7.0 Unlimited User - CD 725
Lantastic Power Suite:
-1 / 5 / 10 / 25-user 149/599/1075/2295
- conversion for 1 / 5 / 10-user 89/345/595
NR-Pro 2000A Combo / 10-pk 85/755
NR-Pro 2000T TP / 10-pk 79/625

ASANTÉ

10T Hub 8 Port (8TP+BNC) ..... *(125)
10T Hub 12 Port (12TP+1BNC+1AUI) ..... *(249)
10T Hub 24 Port ..... *(345)
Fast 100BaseTX 12 Port Hub, stackable ..... *(1475)
Fast 100BaseTX 12 Port Hub, PnP ..... *(1195)
FriendlyNet 5 Port Hub TP ..... *(62)
FriendlyNet 8 Port Hub TP 69

ASCEND

P15-1UBRI: ISDN ..... *(285)
P25-1U-FX: ISDN Pipeline 25 + 4 Ethernet ..... *(435)
P25-1U-PX: ISDN Pipeline 25 + IP Routing ..... *(499)
P50-1UBRI: ISDN Pipeline 50 ..... *(565)
- w. Secure Firewall P50 ..... add 335
P75-1UBRI: ISDN Pipeline 75 ..... *(635)
- w. Secure Firewall P75 ..... add 335
P130-1UBRI-FT1: ISDN ..... *(1245)
- w. Secure Firewall P130 ..... add 645
Max 200+ (M201 - 4BRIU) 2975
Max 1800 (MX18 - 8BRIU) ..... *(4995)

Bay Networks

Bay Stack 12 Port (CG1001E01) 599
Bay Stack 24 Port (CG1001E02) 975
Lattislink 2800A: 16TP + 1AUI 559
Lattihub 2803: 16TP + 1AUI, stackable 599
NetGear FE108: 8 Port 100 Hub, non-stackable 375
NetGear FE508: 8 Port Fast 100 Hub 549
NetGear FE516: 16 Port Fast 100 Hub 965

CHEYENNE

Arc Serve 6.1 for Win - 5 to 25-user (netware) ..... *(395)
Arc Serve 6.1 for Netware Enterprise 1095
Arc Serve 6.5 for Win NT 4.0 Single Server 415
Arc Serve 6.5 for Win NT 4.0 Enterprise 739
Arc Serve 6.5 for Win NT Workstation 99
Arc Solo Backup software for Dos / Win 119/118
Fax Server NLM 5.0:
- 5 / 10 / 25-user 355/639/999
Innocular for Netware Server 4.0 Unlimited ..... *(535)
Innocular for Win'95 (Anti-Virus) 45
Innocular for Win NT Server 575
Innocular for Win NT Workstation Client 46

CISCO SYSTEMS

CPA-762 ISDN BRI w. NT1 525
CPA-1604 Bridge w. NT1 1295
CPA-2501 Router 1 Ethernet 2 Serial 1695

DANPEX

2900P2 PCI Combo ..... *(29)
3270 Emulation for PC / PS/2 ..... 175/195
5250 Emulation for PC / PS/2 ..... 199/235
6200P2 PCMCIA (type II), BNC + TP 79
9400P3 32-bit Combo PCI (DEC, full duplex) ..... *(45)
EN-1600 16 Port Hub R.M. ..... *(155)
EN-3200 32 Port Hub R.M. 255
ER-200 2 Port Repeater Coax 175
ER-400 4 Port Repeater Coax 249
ET-109 Converter (10BaseT to BaseFL) 169
ET-509 Translator (UTP to BNC) 109
ET-510 Translator (UTP to AUI) 107
FE-1000TX ISA 10/100BaseTX ..... *(48)
FE-1400TX PCI 10/100BaseTX ..... *(49)
FR-600 10BaseFL 6 Port ST Hub 795

HEWLETT PACKARD

J2550B Jet Direct TP 279
J2552B Jet Direct Combo 345
J2556B Jet Direct 10/100 Combo ..... *(385)
J2573A 10/100 VG Selectable ISA 169
J2585A 10/100 VG Selectable PCI 135
J2590A Jet DirectEX Plus 3 for 100VG 549
J2591A Jet DirectEX Plus Combo ..... *(285)
J2592A Jet Direct 150X TPO 149
J2593A Jet DirectEX Plus 3 Combo 385
J2610B Advanced Stack 8 Port Hub 245
J3128A Advanced Ethernet 8E Hub 185
J3110A Jet Direct TP for 4000 249
J3111A Jet Direct Combo for 4000 295
J3175A AdvanceStack Switch 208T 1045
J3200A AdvanceStack Switching 12 Port 425
J3202A AdvanceStack Switching 24 Port 825

IBM

Token Ring 16/4 Turbo ISA (72H3482) 245
Token Ring PCMCIA 16/4 Auto 325

intel

SALE

EE110TX 8 Port Fast Hub, non-stackable 459
EE110TX 12 Port 10/100 Dual Speed Hub ..... *(799)
EE110TX 24 Port Dual Speed Hub 1685
EILA 8265 Pro/100 for EISA ..... *(199)
ES101-TX Switching Hub 10/100 ..... *(2099)
EtherExpress Pro/10 Cards:
- PCLA 8210 BNC+TP oem / reg / 5-pk ..... *(65/95/325)
- PCLA 8220 TP / 5-pk ..... *(89/345)
- PCLA 8205 Flash BNC+AUI+TP 135
- PCLA 8215 Flash BNC+TP 125
- PCLA 8225 Flash TP 115
LANdesk Server Manager Pro (LDSMV251) 1185
LANdesk Virus Protect 4.0 945
MBLA 1600 PCMCIA 10/100 ..... *(149)
PCLA 2451 Netport Express Pro/100 Ext, 3 Port 335
PCLA 3151 Netport Express Pro Int 295
PCLA 4451 Netport Express Pro/100 Ext, 1 Port ... 235
PILA 8465B Pro/100 PCI TP oem ..... *(59)
PILA 8480 Pro/100 Server Adapter 485

LANPRO

SALE

EN2000PXA Full Duplex Combo PnP ..... *(27)
EN5200PX PCI Combo ..... *(32)
EN9420TX 10/100TX PCI Card ..... *(39.95)
Fast 100 Hub 5 Port Stackable ..... *(225)
Fast 100 Hub 8 Port Desktop / Stackable ..... *(335/425)
Fast 100 Hub 12 Port ..... *(599)
Hub 5 Port (5TP) ..... *(55)
Hub 8 Port (8TP+BNC) ..... *(69)
Hub 16 Port (16TP+BNC) Desktop ..... *(125)
PS1000A Print Server Single Port 139
SD200 2 Port Easy Switch 10BT & 100TX ..... *(199)

LINKSYS

Fast 100TX 4 Port Hub Stackable ..... *(185)
Fast Switch 10/100TX 2 Port 275
Fast Switch 10BT & 100TX 5 Port 1195

MEGAHERTZ

XJ10BC PCMCIA Ethernet Combo ..... *(135)
XJ10BT PCMCIA Ethernet TP ..... *(115)
XJEM336C Modem 33.6 + LAN Combo ..... *(279)
XJEM336T Modem 33.6 + LAN TP ..... *(249)

MICRODYNE

NE10/100: ISA ; PCI ..... *(89/99)
NE2500 Combo PnP ..... *(35)
NE5500 32-bit PCI Combo ..... *(109)

NOVELL

SALE

Intra Netware Kit for Small Business (<25-user): Server + 5-user + 2 Danpex ISA Combo + 5 Port 10BT Hub ..... *(475)

Intra Netware 4.11:
- 5 / 10 / 25-user ..... *(695/1295/2095)
- 50 / 100 / 250-user 2895/3995/7295
- 500 / 1000-user 15995/30995
- Intra Netware 4.11 Addition 10-user 895
Intra Netware for Small Business:
- Server + 5 License 599
- 1 / 5-user License 59/225
Lan Workplace 5.0 - Single / 10-user 195/1295
Netware NFS v1.2C ..... *(1850)
Netware NFS Service 2.1 2195

SMC

SALE

Ether EZ TP (8416T) oem ..... *(58)
Elite Ultra 32 EISA Combo ..... *(195)
Etherpower PCI Combo (8432BT) oem ..... *(85)
Etherpower II 10/100 (9432TX) oem / 5-pk *(65)/335
EZ Hub 100TX 8 Port 635
Tiger Hub 3212TC (12TP+BNC+AUI) 349
Tiger Hub 3314T 14 Port ..... *(459)

WISECOM

D300CT PCI Bus Mastering (DEC) ..... *(33)
H008CAT 8 Port Hub (8TP+AUI+BNC) ..... *(69)
HI16CAT 16 Port (16TP+AUI+BNC) ..... *(139)
R300CT 32-bit PCI Combo PnP ..... *(29)
U210CT NE2000 ISA Combo PnP 24

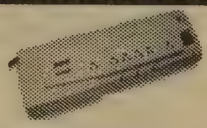
Xircom

CE3-10BC PCMCIA Combo 159
CE3-10BT PCMCIA TP, upgradable 135
CE3B-100BTX 10/100 PCMCIA 155
CEM56-100BTX 56k modem + Fast LAN ..... *(299)
PE3-10BC Pocket Adapter Combo ..... *(279)
PE3-10BT Pocket Adapter TP ..... *(259)

CABLES & ACCESSORIES:

Custom-made Cables, Cross-Overs ..... Call

15. POWER SUPPLIES



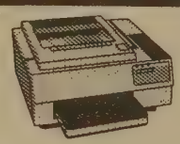
APC

BF-250 Back-UPS Office Kit ($30 Rebate) ..... *(99) 115
BK-280 Back-UPS (200W), 2 out 99
BK-450 Back-UPS (325W), 4 out 165
BK-600 Back-UPS (425W), 4 out 225
BP-280 Back-UPS Pro PnP, 2 out 139
BP-420 Back-UPS Pro PnP, 4 out 225
BP-650 Back-UPS Pro PnP, 4 out 269
BP-1000 Backup Pro, 6 out 375
SU-420 Net 235
SU-620 Net 285
SU-450 Smart-Net (486, 586, WS), 4 out 295
SU-700 Smart-Net (486, 586, FS), 4 out 365
SU-1000 Smart-Net (FS, WS), 6 out 495
SU-1400 Smart-Net (950W), 6 out 625
SU-2200 Smart-Net (1600W), 8 out 999
SU-1000 RM Net 575
SU-1400 RM Net 739
SU-2200 RM 3U 1235
Powerchute Plus: - for Novell 65
- for OS/2, LAN Server, 3Com 75
- for Unix / Xenix 99
- for Win & Win'95 / Win NT 55/69
Surge Arrest (PER 7) 17.99
Surge Arrest w. TEL (PER 7T) 22.99
Surge Network Strip (NET 7) 29.95
Surge Network Strip (NET 7T) 39.95
Surge Protector (P7) 9.99
Surge Station Net 8 / 8N 36/48
Surge Station Pro 8 / 8T2 / 8TV 32/39/49

PC POWER COOLING

CPUcool for 486 or P-75 to P-133 (1.9") 18.95
CPUcool for P-150 / P-200 (1.9W) 19.95
CPUcool for Pentium® Pro (3.2") 22.95
Silencer 230 Slim for Baby or Mid Tower 69
Silencer 230 for Full Tower 89
Silencer 270 for Full Tower 124
Silencer 270 Slim for Baby or Mid Tower 114
Silencer 235 ATX / 275 ATX 84/124
Standard 230 for Full Tower 85
Turbo Cool 300 ATX 126
Turbo Cool 300 for Full Tower 125
Turbo Cool 300 Slim for Baby or Mid Tower 115
Turbo Cool 400 ATX 199
Turbo Cool 400 Slim / for Full Tower ..... *(175/176)
Turbo Cool 450 for Full Tower (heavy duty) 285
Two-in-1 500 (slim, redundant) 215
Twinpower 900 (redundant) 895

16. PRINTERS & PLOTTERS



BROTHER

HL-720 True 600dpi, 6ppm, Laser 315
HL-730DX True 600dpi, 6ppm, Laser 365
HL-1660 1200x600dpi, 17ppm, Laser ..... *(1089)
MFC-4550 5-in-1, 600dpi, Laser, Fax 699
MFC-6550 6-in-1 969
MFC-7000FC 6-in-1 Fax/ Copy/ Scan etc. 979

Canon

BJC-70 Color 720x360dpi, 346cps ..... *(299)
BJC-240 Color Photo, 360x360dpi, 4ppm 189
BJC-620 Inkjet, Color, Par, 720dpi ..... *(299)
BJC-4300 Inkjet, Color 199
BJC-4550 720x360dpi, 5ppm, 11"x17" 475

EPSON

FX-880 9-pin 295
FX-2170 9-pin, Wide, max. 6 copies 449
LQ-570+ 24-pin 259
LQ-870 24-pin, Par 455
LQ-2070 24-pin, Wide ..... *(389)
LQ-2170 24-pin, Wide 549
Stylus 400 Color, 720dpi, 3ppm ..... *(199) 209
Stylus 600 Color, 720x1440dpi ..... *(265)
Stylus 800 Color, 720x1440dpi, 8ppm ..... *(369)
Stylus 1500 720dpi, fit A - C size paper 469
Stylus 1520 Color 759
Stylus Photo (C209011) ..... *(355)

Epson Ink Cartridges:

Black Ink for II & IIS (SO20047) 19.95
Black Ink for 400/ 500/ 600/ Photo 19.45
Black Ink for 400/ 800+ (SO20025) 10.95
Black Ink for 800 Color/ 1520 Color (SO20108) . 22.45
Color Ink for II & IIS (SO20049) 29.95
Color Ink for 400/ 600/ 800/ 1520 ..... 22.95
Color Ink for Stylus Photo (SO20110) 19.95

Epson Paper:

Banner Kit for 1520 (C811011) 31.95
Banner Paper for 1500 (SO41102) 25.95
Coated Letter Paper 720dpi (SO41062), 100 sheet 12.95
High Quality Glossy (SO41072), 15 sheet 24.95
High Quality Inkjet Letter (SO41111), 100 sheet . 8.95
Iron-On Paper, (SE41001), 10 sheet 12.95
Photo Quality, 4x6 (SO41134), 20 sheet 7.45
Photo Quality, 11x17 (SO41070), 100 sheet 26.95
Photo Quality Glossy (SO41124), 20 sheet 10.95
Photo Quality Glossy, 11x17 (SO41075), 10 sheet 38.95
Photo Quality Glossy, 13x19 (SO41074), 10 sheet 49.95
Photo Quality Legal (SO41067), 100 sheet 17.45

HEWLETT PACKARD

Color Laser Jet 5 (C3961A) 3875
Color Laser Jet 5M (C3962A) 4945
Deskjet 670C (C5884A) 208
Deskjet 692C 275
Deskjet 720C 349
Deskjet 870CXi ..... *(369)
Deskjet 890CXi 419
Deskjet 1000CXi (C2673A), print size 4x6 - 11x17 485
Deskjet 1600C for PC & MAC 1299
Deskjet 1600CM Postscript for PC & MAC 1899
Laser Jet 4V/ 4MV (B size) 1795/2595
Laser Jet 5 / 5M / 5N 999/1525/1285
Laser Jet 5Si / 5SiMX 2349/3395
Laser Jet 6LXi ..... *(377) 389
Laser Jet 6PXi / 6MP 745/879
Laser Jet 4000 (C4118A), 2 trays 1099
Laser Jet 4000N 1415
Laser Jet 4000T (C4119A), 3 trays 1249
Laser Jet 4000TN (C4124A) JetDirect & Postscript 1575
Mopier 5Si (C4176A) / w. Bundle 4445/6545
Office Jet 590 (C4645A) 4-in-1 499
Office Jet 630 (C5315A) 4-in-1 619
Office Jet Pro 1150C Color (C5300A) 939
Portable 340 (C2655A) 295
Portable 340CV 315

PLOTTERS:

Design Jet 430: D Size (C4713A) 1675
Design Jet 430: E Size (C4714A) 2495
Design Jet 450C: D Size (C4715A) 1995
Design Jet 450C: E Size (C4716A) 2895
Design Jet 750C+: D Size / E Size 4995/5695
Design Jet 755CM: E Size 8195
Design Jet 2000CP: E Size (C4703A) 8295
Design Jet 2500CP: E Size (C4704A), Ethernet ... 9995

Accessories:

C3067A: Color for 540 ..... *(37)
C3760A: Lower Cassette for 4V/ 4MV 325
C3762A: Duplex for 5Si/ 5SiMX 479
C3765A: Envelope Feeder for 5Si 379
C3920A: Duplex for 5/ 5N/ 5M 475
C3921A: 500 Sheet Feeder for 5 225
C3927A: Power Envelope Feeder for 5 259
C4123A: Duplex for 4000 289
C4137A: 16MB for 4000 145
C4533A: Color for 600 ..... *(39)

HP Ink Cartridges:

51625A: Color for 500C/ 550C/ 560C 26.95
51626A: Black for 500/ 540/ 560 ..... 24.45
51629A: Black for 600/ 660 ..... 24.95
51640A: Black for 1200C 23.95
51640C: Cyan for 1200C 27.95
51640M: Magenta for 1200C 27.95
51640Y: Yellow for 1200C 27.95
51641A: Color for 870C/ 855C/ 1600C 28.95
51645A: Black for 870C/ 855C/ 1600C 26.95
51649A: Color for 660C 29.25
C3102A: Cyan for Color Laser Jet 32.95

*(sale price) ..... SPECIALS, limited to stock on hand
Prices subject to change without notice.

http://www.centralcomputer.com for current prices & product catalog

HPC3103A: Yellow for Color Laser Jet 32.95
HPC3104A: Magenta for Color Laser Jet 32.95
HPC3105A: Black for Color Laser Jet 7.95

HP Paper:

92296T: Transparency for Laser, Letter, 50 sheet 17.95
C1812A: Greeting Card, Letter, 20 sheet 7.95
C1846A: Photo Paper, Letter, 20 sheet 9.95
C2974A: Glossy, Letter, for 5/ 5M, 50 sheet 39.95
C3850A: Opaque Bond, 36"x150' roll 24.95
C3877A: Coated Paper, 36"x150' roll 39.95
C5973A: Premium Glossy, Letter, 25 sheet 21.95
C5976A: Bright White Inkjet, Letter, 200 sheet 5.95
C6039A: Premium Photo, 4"x5", 15 sheet 8.50

HP Toner Cartridges:

HP92274A: for 4L/ 4ML/ 4P 65
HP92275A: for IIP/ IIP+/ IIIP 74
HP92291A: for IIISi/ 4Si/ 4SiMX 129
HP92295A: for II/ IID/ III/ IIID 75
HP92298A: for 4/ 4M/ 4+/ 4M+/ 5/ 5M/ 5N 89
HPC3900A: for 4V/ 4MV 139
HPC3903A: for 5P/ 5MP/ 6P/ 6MP 75
HPC3906A: for 5L/ 5ML/ 6L 59
HPC3909A: for 5Si/ 5SiMX 179
HPC4127A: for 4000 ..... 89.95
HPC4127X: Extra Toner for 4000 129

IBM (NETWORK PRINTER)

#4312001: Laser, 600dpi, 4MB, 12ppm 1025
#4317001: Laser, 600dpi, 4MB, 17ppm 1365
#4324001: Laser, 600dpi, 4MB, 24ppm 2345

LEXMARK

Optra C Color, 600dpi, Postscript, 8MB, 3ppm .. 4495
Optra E 600dpi, 1MB, 6ppm 395
Optra S1250 1200dpi, 4MB, 12ppm 1045
*- with LAN (S1250N) ..... *(1245) 1299*
Optra S1650 1200dpi, 4MB, 16ppm 1295
- with LAN (S1650N) 1545
Optra S2450 1200dpi, 4MB, 24ppm, 11x17 2295
- with LAN (S2450N) 2595

NEC

Superscript 860 Laser 389

OKIDATA

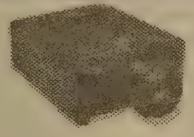
SALE

ML184T 9-pin, Par, 300cps, max. 5 copies 235
*ML320T 9-pin, 290cps, max. 5 copies ..... *(315)*
ML390T 24-pin, 312cps, for Win & Win 32 345
*ML520 9-pin, 430cps ..... *(385)*
ML590 24-pin, 450cps, max. 5 copies 449
ML591 24-pin, Wide, max. 5 copies 625
Office 44 4-in-1 575
*OkiPage 4W Laser, 4ppm ..... *(199)*
*OkiPage 6E 600dpi, 6ppm ..... *(289)*
*OkiPage 6EX 600dpi, 2MB, 6ppm ..... *(399)*
OkiPage 16N Laser, 600dpi, 16ppm 889
*OL600E Laser, 600dpi, 6ppm ..... *(295)*
*OL810E Laser, 600x1200dpi, 8ppm ..... *(565)*
*OL1200 Laser, 600dpi, 2MB, 12ppm ..... *(949)*

SEIKO

Smart Label Printer EZ30 145
Smart Label Printer Pro 235
Standard Label (2 rolls) 7.95

17. PROJECTOR



3M

Overhead M9100 AJB 289
Overhead M9200 AJC 399
Overhead M9550 AJH 615
Overhead M9700 AJJ 499

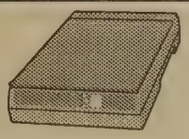
NEC

Projectors ..... Call

PROXIMA

Desktop DP5100 LCD 3499
Desktop DP5500 LCD 640x480, Zoom 4599
Ovation 810 8.4" LCD, 2M color, 640x480 1665
Ovation 944 10.4" LCD, 16.7M, 1280x1024 6395
Ovation+ 810 8.4" LCD, 16.7M, 800x600 2195
Ovation+ 846 10.4" LCD, 16.7M, 800x600 2695
Portable Overhead A653 3000 Lumens 475
Portable Overhead A655 4000 Lumens 799

18. SCANNER



ACER

*AcerScan 310S 30-bit ..... *(135)*

COMMAX

Imager 730 30-bit 960dpi Parallel Port 109

HEWLETT PACKARD

*ScanJet 6100 (C6267A) ..... *(699) 745*
*- Auto Document Feeder (C6265A) ..... *(455)*
- Transparency (C6261A) 599
*ScanJet 5P ..... *(275)*
*ScanJet Office 4P + ADF (C4135A) ..... *(595)*
ScanJet Personal 5S 195

MICROTEK

*Scan Maker III w. TMA & Photoshop OCR ..... *(1399)*
*Scan Maker E3 600dpi, 24-bit color, OCR ..... *(435)*
*Scan Maker E6 1200dpi, OCR ..... *(269) 285*
Scan Maker E6Pro 1200dpi, Photoshop COR 499
Scan Maker V310 Parallel 145
Slide Maker 35T 1800dpi, 16.8M color 725
Auto Document Feeder ADF600 365
Color Pagewiz for Win, 24-bit 159
Transparency Adapter for E3 / E6 ..... 285/285

STORM TECH

*Easy Photo Reader Parallel ..... *(115)*
*Easy Photo Smart Page ..... *(149)*

UMAX

*Astra 610P Win ..... *(139)*
*Astra 610S Photo Deluxe ..... *(149)*
*Astra 1200S Win Deluxe ..... *(249)*
*Astra 1200S Win PS ..... *(445)*

19. TAPE BACKUP

AIWA

GD-B8000 8GB DDS-2 4mm SCSI Int 649
TD-S3200 TR-3 3.2GB Int 135

EXABYTE

*Eagle TR3 603003-004 3.2GB Int ..... *(145)*
EXB-8205XL 8mm Dat. 3.5-7GB Int 1275
EXB-8205XL 8mm Dat. 3.5-7GB Ext 1499
EXB-8505XL 8mm Dat. 7-14GB Int 1850
EXB-8505XL 8mm Dat. 7-14GB Ext 2095
EXB-8700E 8mm 7-14GB Ext Drive 925
EXB-8700LT 8mm 5-10GB Ext Drive 675

HEWLETT PACKARD

*C1534 4mm Dat. 2GB SCSI Int Drive ..... *(549)*
- w. Int Kit (C1525) / Ext Kit (C1520) 725/845
*C1536 4mm Dat. 2-4GB SCSI Int Drive ..... *(579)*
- w. Int Kit (C1526) / Ext Kit (C1521) 769/895
C1549A Surestore DLT 30GB Ext 3095
C1554 Dat. 24GB DDS-3 Int 1045
- w. Int Kit (C1555A) / Ext Kit (C1556A) . 1399/1545
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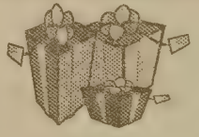

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BMUG • By Peter Linde and Sam Penrose

Disaster Avoidance Through Reliable Backups

Plus: Support Resources On Apple's Web Site

This month, Peter will talk about the important issue of data protection through proper backup; Sam will be taking a look at the technical support available on Apple's Web site.

Peter's Backup Tips—The Butt You Save May Be Your Own

OK, be honest. When was the last time you backed up your data?

For many of us, performing backups properly and consistently is tantamount to voluntary trips to the dentist, yet the importance of regularly backing up your data, as well as testing your backup, can hardly be overstated.

In our last BMUG column, I wrote about how important it has become for Mac users to protect themselves from Macro Viruses, a relatively new threat to your data. This time, I want to mention some of the same cautions about an age-old threat: drive failure and subsequent data loss.

And in contrast to what you might think, many factors and even technological advances are making a good, complete, and working backup system a necessity even more than in the past.

First off, magnetic media have always been an imperfect method for storing data. All magnetic media (hard drives, floppies, Zip disks, DAT tapes, etc.) eventually fail. There are no exceptions to this rule. In fact, hard drives are rated on a scale called MTBF, which stands for Mean Time Between Failures.

In English, this means that a drive has a 50% chance of dying by the time it reaches its MTBF. Some will die the day they come off the assembly line. Others will last for years beyond their MTBF rating. Yours will likely fail somewhere in between. And it will probably fail when you are on a deadline. The average MTBF for hard drives has been going up dramatically over the last few years, but hard drive manufacturers still use this measurement because they recognize that all hard drives die.

Two other trends in the hard disk world have helped to increase the danger associated with storing data: higher capacity drives, and higher platter rotation speeds. Higher capacity means that more data gets crammed on to a smaller physical space on the disk platters. Therefore, if the disk does suffer some physical insult, it is more likely that more of your crucial data will be lost. Higher platter rotation speed means that the physical medium is moving faster; the platters on which your data is stored actually create a gyroscopic effect, as well as wind that can damage the disk if it is moved even slightly while running.

Add all this together and you have a recipe for data flambé.

Protect Me!

So how do you avoid the inevitable heartbreak of serious data loss? You must set up, use, and periodically test a backup system.

What constitutes a backup system? Lots of things. For example, simply copying your important data files to a floppy disk is one form of backup system. Many people use Zip drives for this purpose. More sophisticated systems include DAT drives coupled with software that performs the function of backing up your data automatically.

The first rule of backup is that no piece of important data should ever exist in only one physical location—ever. The more literally you interpret this rule, the more safe your data will stay.

At the most basic level, this rule commands that you should copy all your important documents to a floppy or another hard drive attached to your machine. If your data is only on one hard drive, and that hard drive goes south, you can lose your data. But if you copied your data to your external hard drive, or your Zip, or even a floppy, you can chortle lightheartedly, knowing that you have lost nothing but a sorry old hard drive.

However, let's say, for example, that you diligently back up your data on to floppies, smugly thumbing your nose at fate as you neatly stack your floppies next to your computer. Are you protected against data loss now? No way! You are certainly better off then your friends and colleagues who never back up. But what if your home or office catches fire, taking your computer (and neatly stacked floppies) with it?

Welcome to the concept of off-site backup. By simply taking a copy of your backup with you to another physical location, you dramatically increase the safety of your data.

What Kind Of Backup System Is Right For You?

The least-expensive backup system is the one in which you do all the work. With this system, you have to remember to back up your data on to some other media other than your regular hard drive.

Pros: Its cheap and anyone can do it.

Cons: You will get lazy or just forget to back up something important. I promise. You will. In addition, this just isn't efficient if you are backing up large amounts of data.

Next up is a system that involves some external removable cartridge like a Zip or Jaz drive and software such as Dantz Developments DiskFit Pro *(http://www.dantz.com)*. DiskFit Pro can automatically determine which of your documents have changed since the last backup and add only those to the cartridge.

Pros: This software makes backing-up easier and therefore more likely to occur regularly. In addition, the software verifies what it copies so that you can be reasonably assured that what you back up is what is actually on your hard drive.

Cons: Great software, but not as good as its older brother, Retrospect (see below). Not easy to automate your backup.

A top-of-the-line backup system that can not only back up your machine, but others on a network if needed, is a DAT (digital audio tape) drive with Dantz Development's Retrospect (and Retrospect Remote if network backup is needed). While it can also back up Windows machines over a network, Retrospect is quite simply the only software to use for backing up large amounts of data on a Mac. It's well-designed, about as bug-free as software gets, and the company is full of great people who are ready to answer your tech-support questions.

Pros: DAT can hold gigs worth of data, making it the only choice for those of us with multiple large drives. Retrospect verifies your data as it backs it up so that you can sleep well, knowing that your data is safely and accurately secured. In addition, the system can be completely automated which means its more likely that regular backups will occur.

Cons: If you can't afford $500–1500 for this system, that's a big Con. But ask yourself, How much is my data worth to me? If it's over $1500, check out a DAT backup system.

One last note on backup systems: Whatever system you set up needs to be tested. Even the most advanced and expensive system will fail sometimes. You should check your backup system periodically by restoring a file or two from your backups to make sure that they are readable.

If you don't have a backup system, you need to get one. Those of you that have backup systems need to make sure they work.

Tech support is about dealing with trouble, not glossing it over. Much of the site's information is written in a tone that suggests lawyers have gone over it to make sure it doesn't reveal anything more than it has to.

Sam Asks: Need A Little Support? Visit The Apple-Support Web Site

You can get free, comprehensive technical information and support for your Macintosh, including answers to your personal questions from clueful Apple employees—without spending any time on hold. Twenty-four hours a day, seven days a week.

Well, sort of.

Apple has provided support resources of significant value on the World Wide Web at *http://www.apple.com/support/* . Unfortunately the implementation is a work-in-progress.

The site offers four main resources spread across thousands of Web pages: Technical Support Online; downloadable software; a Technical Information Library; and developer support. We'll look at the first three.

Tech Support Online

http://www.info.apple.com/tso/

Tech Support Online is organized by category: basic troubleshooting; MacOS and applications; desktops; portables; displays; printers and imaging; servers and networking; QuickTime; and Newtons. Each of these categories has its own subset of pages: "News" (recently added items); Frequently Asked Questions; Software; Discussion; and Resources (The troubleshooting pages are done a little differently). There is also a search engine.

HTML chaos begins immediately. On the */support/* page alone four resources are linked twice, while the Tech Info Library is linked three times. Links that claim to go elsewhere reload the current page. Half of the links in three pull-down menus don't do anything useful for one reason or another.

Tech Support Online's page format makes you feel simultaneously everywhere and nowhere. In the first 200-odd vertical pixels of each page there is a navigation bar (for Apple's entire Web presence), another navigation bar (for the Support area), a title ("Tech Support Online"), a subtitle ("You are in: Desktop/Performa Computers"), a pull-down menu (for navigating to different Tech Support Online categories), and a button bar (for navigating within your category), all in different styles and alignments.

Once you've battled through this visual cacophony, you can get anywhere from anywhere within Tech Support Online. This is a good second step. The first step is providing places worth getting to. The site is plagued by fragmentary information resources given major play and useful items buried in a mass of HTML. Many if not most of its pages are devoted entirely to links.

When you finally find some prose, the result is often disappointing. FAQ files do not cut it as the basic information resource for Apple's technology. Computers need users' manuals. In today's industry these are long $35 books written and published with varying degrees of autonomy, honesty, and competence. Perhaps it is unreasonable to ask Apple to provide comprehensive manuals on the Web if it can't afford to provide them with its computers, but the English language has much better potential for organizing this kind of information than HTML does, online or off. Links are not knowledge.

A look at the MacOS discussion area (*http://discuss.info.apple.com/boards/MacOS.nsf/by+Topic)* shows that about half of the questions received replies, not all of them helpful. A large number of questions were posted two, three, or four times in quick succession, indicating that the person asking could not make sense of the interface.

Many of the replies by Apple employees were links to relevant articles on the site, another clue that people are lost. Of the HTML discussion board interfaces I have seen, this one is

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probably the worst. (BMUG's FirstClass system makes them all seem, well, second class.) Still, it exists, and a significant fraction of questions receive helpful answers, whether from Apple or other customers. The company deserves kudos for making this resource available.

Tech Support Online's troubleshooting area (*http://support.info.apple.com/tso/troubleshooting/*) is divided into Problems, Prevention, Repair, Before You Call, and Other Resources. Again, you'll find endless fragments of semi-useful information and only a few good overviews. What troubleshooting resource worth the name doesn't deal with extensions for Apple's latest OS? If there is such a page, I couldn't find it.

The troubleshooting resources page (*http://support.info.apple.com/tso/troubleshooting/topic_resources.html*) contains links to InfoMac and other Internet archives, a step in the right direction, but no set of links to specific programs. For example, as long as they are going to tell you about Disinfectant for virus protection, they might as well link it. TechTool, a great freeware aid for desktop rebuilding and PRAM zapping, isn't even mentioned.

Software

http://www.info.apple.com/swupdates/

The software downloads area consists of the Tech Support Online interface laid over the sensible structure of Apple's old FTP site. There are hundreds of useful files here, making it the one area of the site where content is basically unhampered by HTML.

Tech Info Library

http://www.info.apple.com/til/

The primary entry to the Tech Info Library is a search page. This can be good or bad, depending on whether there is any information to search for. It returned two hits for "MacOS 8" when I specified MacOS as a topic area. I reran the search with no area specified and got eight more hits, only one of them useful to more than a few people ("Clean Install Instructions for Performa Computers"). On the other hand, searching for "6500" (the model number of a current desktop computer) returned fifty articles, many of broad interest. Avoid the useless Top Articles page.

Perhaps it is unreasonable to ask Apple to provide comprehensive manuals on the Web if it can't afford to provide them with its computers, but the English language has much better potential for organizing this kind of information than HTML does, online or off.

Half Full, Half Empty

Apple deserves our gratitude for all the work they've done to make some great resources available on the Web. They also owe it to themselves and their customers to finish the job.

First, please eighty-six most of the HTML. Second, combine all the little scraps of information into substantial text files. Third, rewrite them. Fourth, do real linking to the rest of the Web.

Besides letting technical writers rather than Webmeisters drive their support site, Apple should address its pervasive sense of corporate reticence. Tech support is about dealing with trouble, not glossing it over. Much of the site's information is written in a tone that suggests lawyers have gone over it to make sure it doesn't reveal anything more than it has to.

It may be too much to ask Apple to admit all of its products' shortcomings or link directly to sites that are in the business of exposing those shortcomings. But if it were willing to restrain the coders, free the writers, and let in a little fresh air, Apple could make its support site a fabulous resource. ■

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INTERNET • BY JOHN S. QUARTERMAN

Is The Internet A Commons?

First Of Two Parts

First the Internet was a research curiosity; then it was an academic haven; then it was discovered by artists and trendy people, then by companies. Then it was reviled by the press; then it was popular with the general public; then it was going to crash; then it was reviled by the press some more and attacked by the US government; then it survived anyway. Now many people want to regulate it, either by pricing or laws or both, applying to traffic or content or both.

Why do people want to regulate it? Because, many say, it's a commons, and if use of it is not regulated, access will be inequitable, and those who do have access will destroy it by overuse, like cows overgrazing a field of grass. This opinion has appeared in print in very respectable places, for example recently in an article in *Science* ["Social Dilemmas and Internet Congestion," by Bernard Huberman and Rajan M. Lukose (*Science*, 277:535-537, 25 July 1997)]. I have already commented on that article in some detail in "This Is Science?" [*http://www.mids.org/mn/708/science.html* (*Matrix News 708*)]. Here I am not concerned with the specific mathematical model of Internet traffic proposed in that *Science* article, but rather with a more general question.

The "field of grass" scenario was invented by Garett Hardin in 1968, and first appeared in print in his article "The Tragedy of the Commons," also published in *Science* [*Science*, 162:1243-1248, 13 December 1968 (*http://lrainc.com/swtaboo/stalkers/gh_tragc.html*)]. Is "the tragedy of the commons" any more applicable than any of the other fads or phases of perception that people have tried to paste to the Internet?

Why do people want to regulate the Internet? Because, many say, it's a commons, and if use of it is not regulated, access will be inequitable, and those who do have access will destroy is by overuse, like cows overgrazing a field of grass. This opinion has appeared in print in very respectable places.

Mouths, Hands, And Trees

Hardin did not invent his basic argument, as he was well aware. To understand it, it is convenient to start a few centuries back.

Every new human comes with a pair of hands, with which to produce more food and goods. This view was popularized by Adam Smith (1723-1790), a founder of capitalist economic thought, especially in his book, *The Wealth of Nations*, 1776. There is evidence for that view, considering that large sections of the world such as southeast Asia have pulled themselves out of poverty to reach affluence rivaling America and Western Europe in the span of one or two generations.

Every new human comes with a mouth that has to be fed. This point was emphasized by Thomas Malthus (1766-1834). Growth and crash in populations of deer, rabbits, etc. were long known. In the absence of adequate predators, animal populations often breed until there is not enough food to support them, after which they starve and die. Malthus was one of the first to elaborate on the consequences of similar scenarios in the human arena. He more or less invented the concepts of unemployment and diminishing marginal productivity, and he emphasized overpopulation. By such considerations he was the founder of modern economics, and his points gave it the name "the dismal science."

There is evidence for this view, considering that the majority of the human species does not have enough to eat, and those who do always want more; more of something else, if not of food.

Malthus pointed out that technological progress could improve agricultural productivity in the short term, but he thought that would only put off the final catastrophe, the Malthusian crisis, when population overran resources and productivity and widespread famine, war, and death resulted. Subsistence was the best possible outcome, thought Malthus. Dismal, indeed.

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Internet *continued...*

You can easily argue that 300 years later it hasn't happened yet, both because technical progress has been far more consistent than Malthus imagined, and because the increasing wealth technology produces leads to decreased population growth, so maybe Malthus was wrong. Or maybe he just got the time scale wrong, and it's starting now.

Southeast Asia burns as I write this. The smoke is literally so thick that at least one airliner has crashed because it couldn't navigate. Traditional slash-and-burn agriculture has been adopted by agribusiness in those parts, and when the monsoons didn't come on time there was hell to pay. That wasn't exactly the mechanism Malthus predicted, but maybe he was right, considering the floods in the Philippines a few years ago because they had cut down the forests, or the fires and mudslides in California because of overbuilding and overcutting, or the wars in the Middle East, and the genocide in Bosnia and Rwanda, not to mention the riots in Los Angeles. "That famous horseman, Death," as Odysseus called him, is abroad in the world. If Odysseus was not wholly fictional, he lived in one of the last generations before the Greek Dark Age of about 1100 to 900 B.C., which many scholars believe was a Malthusian crisis, brought on by overcutting and overgrazing.

It's easy to carry the economic, environmental, and political arguments over into the religious arena:

"And I looked, and behold a pale horse: and his name that sat on him was Death, and Hell followed with him. And power was given unto them over the fourth part of the earth, to kill with sword, and with hunger, and with death, and with the beasts of the earth."

That passage from *Revelations 6:8* seems to describe exactly what we are talking about, because after all, if Malthus and Hardin were right, what we are talking about is the impending end of the world as we know it. The emotional baggage associated with the tragedy of the commons is thus large.

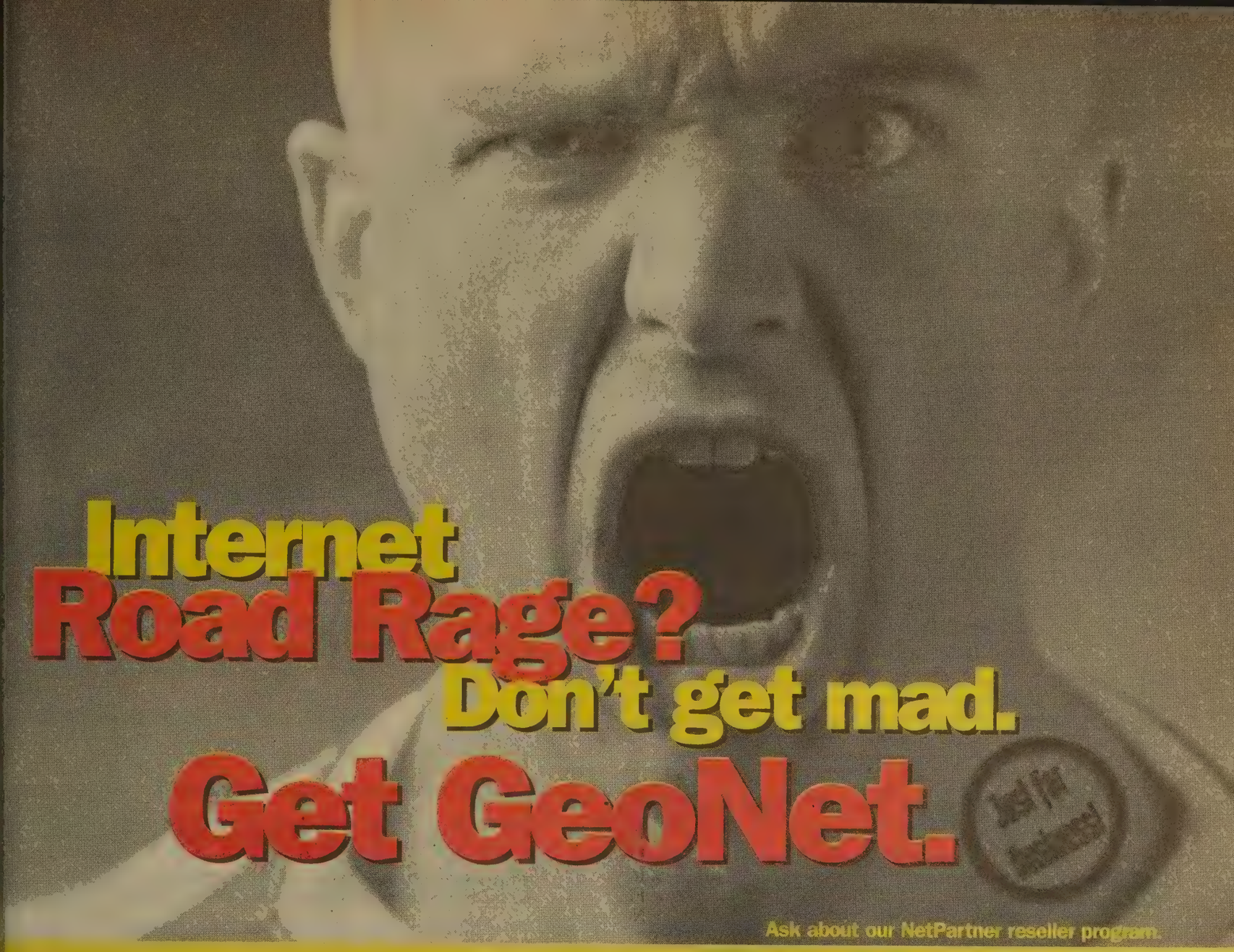
But the fate of the world is not the subject of this column. I parade all these specters in front of you in order to point out that they aren't what we're talking about right now.

We're talking about the Internet. It is not a human being, a biological system, nor a natural resource. It is a communication mechanism. Let's dispense with the emotion-laden gloom-and-doom scenarios for the moment and look more closely at the specific tragedy of the commons scenario, and then see if it fits this artifact we are all constructing.

The Tragedy Of The Commons

As we saw, Hardin was far from the first to contemplate mass poverty and death because of overpopulation. So what is unique in Garett Hardin's analysis? As near as I can tell, his insistence that there is no technical fix and his readily comprehensible example of the commons. Let's look at those specific aspects.

A typical village would have a commons,



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Internet *continued...*

such as Boston Common. In the old days they weren't parks reserved for recreation. They were grazing pastures for cows and other livestock. This is fine as long as each villager has about as many cows as any other villager, and the total number of cattle is small enough that there is enough grass for all of them.

But a prosperous villager tends to have more cows, which eat more grass and beget more cows. More cows graze the grass faster. Everyone's cows suffer because they do not have enough food to eat. A villager with only one underfed cow doesn't have enough milk for the children. Meanwhile, the rich villager will perhaps not be able to sell enough milk or beef, but he and his family personally will probably not suffer. If anything, diminishing grass gives them incentive to raise *more* cows so they can continue to get as much milk and beef out of them as they used to get out of fewer cows.

Eventually, there isn't enough grass to regrow or reproduce itself in the face of all those cows munching on it. The available grass suddenly shrinks drastically. Cows start dying. People start dying. Poor people suffer most. The rich survive if anyone does. It's not necessary that anyone does.

Archaeologists have documented evidence of trees, grass, and animal and human populations in the back country of Algeria. Maybe the inhabitants called it the Sahara Forest. We call it the Sahara Desert, and it was very likely people who changed it from one to the other several thousand years ago. People and their hungry cows, camels, and goats, just as they continue to nibble away at the edges of the Sahel, turning more of it into Sahara day by day.

In a traditional slash-and-burn agrarian economy, or a medieval western village's common economy, overburning or overgrazing simply caused the inhabitants to pick up and move. But there is no new Indonesia, no new Malaysia; burning those up will leave a lot of people in a bad way.

Hardin says there is no technical solution. Better fertilizers may put off the problem for a while, but eventually the source of the fertilizer is exhausted, or the number of cows simply increases beyond the carrying capacity of even the fertilized grass. Then there is a population crash.

Malthus might have been wrong in his time, but the basic idea of a population crash may still be correct. Malthus indeed didn't foresee the pace and sustained level of technical innovation, but technology has only let population increase to a point where numerous resources, from food to petroleum to the air itself, are being strained beyond carrying capacity.

That is the tragedy of the commons, its application to the modern world, and how it differs from its historical predecessor. Once again, whether it is correct or not is not the subject of this column.

National Security In A Nuclear World

Ironically enough, Garett Hardin's original paper was prompted by national security in a nuclear world. Ironically because that was also the impe-

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Internet *continued...*

tus for the ARPANET, which was the predecessor of the Internet. Many of the original researchers will adamantly assert that that was not *their* impetus; they were involved in basic research. And of course they are right, yet defense was the reason the US Navy and Congress provided the funds.

In other words, in some sense the Internet is exactly the sort of technical solution that Garett Hardin said was not possible to a technical problem. Yet he may well be right, as far as the specific original problem. The immediate threat of nuclear war was abated by non-technical means: differential economic progress of the opponents; observation of that progress by the participants; and political efforts of players as diverse as presidents and popes.

Computer networks did play some small role, in that they were one window from the Second World onto the First World. It was little-known in the West at the time that USENET extended well into the Soviet Union from its earliest days. The ARPANET also had extensions to the East that probably were not approved by the Pentagon. Thus selected researchers in the Soviet Union and its satellites were quite familiar with both Western networking technology and with much of the nontechnical information that was carried over computer networks.

In more immediate terms, it is well-known that RELCOM, an early Russian computer network, was instrumental in getting information in and out of Moscow during the attempted coup against Gorbachev in August 1991, even though RELCOM only had an electronic mail connection to the West at the time. In the East, USENET (mostly carried over the Internet by that time) was instrumental in distributing information about the Tienanmen Square massacre of June 4, 1989 in China, and in organizing demonstrations in foreign countries against it. People faxed out reports that were typed in, posted on USENET, and thus immediately distributed worldwide. Nowadays, the Soviet Union is no more. Even though China is still nominally Communist, both it and the ex-USSR states are among the fastest growing in Internet hosts.

No one would be foolish enough to say the Internet ended the Cold War and thus improved national security in a nuclear world, yet it did have a role in that historical process.

Next Month: Does The Internet Fit The Commons Model? ■

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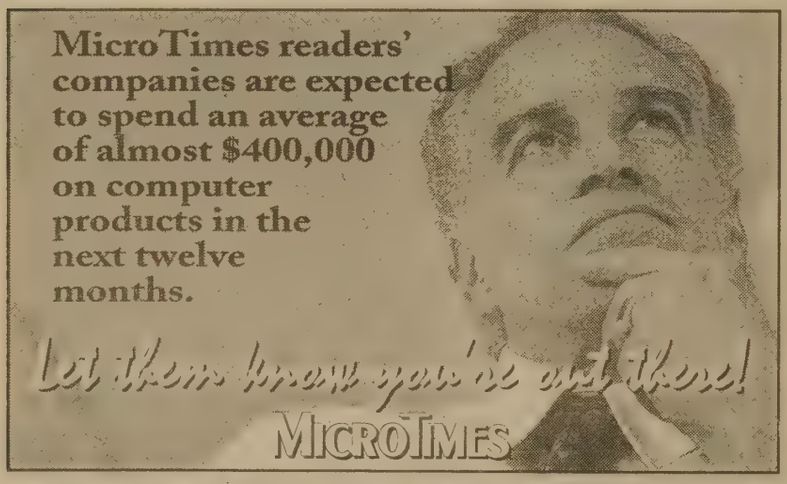
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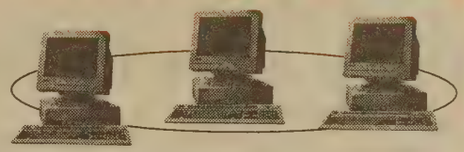

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200MMX $1339

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P-133 $1219

AMD K6-200 $1304

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17" Sony 200SX 1280x1024 .25	619

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Mitsumi Serial Mouse	12
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Windows NT 4.0 Workstation.	159

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Panasonic 1.2MB/1.44MB	46

DISPLAY CARDS

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2MB S3 Virge 3D DRAM PCI	52
2MB Diamond Virge 3D EDO RAM PCI	74
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BY KEVIN M. SAVETZ

High-Speed Internet Access

Today's Reality, Or Still A Dream?

They don't call it the World Wide Wait for nothing.

Accessing the Internet can be dreadfully slow. Painfully slow. Glacial. Visiting a graphics-heavy Web site after work or on the weekend can try the patience of even the most tolerant person. And if you've ever downloaded a really big file—say, the latest version of Netscape Communicator or a sound file—you know that patience truly is a virtue to an Internet user.

The bottleneck is sitting right there on your desk: your modem. As it sucks down bits from the Internet and blinks its little lights at you, your modem is the last leg of the journey—and the slowest—that the information must take on its way from the world to your computer screen. 28,800 bits per second is great for email, reading newsgroups and even a little Web surfing, but not enough for the multimedia Web sites that are all too common on the Net.

FAST, CHEAP INTERNET ACCESS SEEMS TO BE JUST ON THE HORIZON. IS IT REALLY THERE OR IS IT A MIRAGE?

Even users who have invested in one of the newer modems that receive data at 33,600 or even 56,000 bits per second ask the question aloud: "When will we get some real speed?"

There are several answers for faster Internet access, but so far these are best suited for small businesses. ISDN—Integrated Services Digital Network—delivers information at up to 128,000 bits per second—nearly five times the speed of that lagging 28.8Kbps modem—but is infamous for the difficulty of getting it to work. (Depending on where you are located, ISDN can also be expensive—from around $80 to several hundred dollars a month for even casual use, not to mention an investment of several hundred more for hardware necessary to use it.)

While we lag around on the Web at a snail's pace (well, maybe at the pace of a speedy snail), we hear stories—of a friend of a friend who has home Internet access ten times faster than ours. Or we read a newspaper story about how high-speed access is being tested in some far-away city.

Fast, cheap Internet access seems to be just on the horizon. Is it really there or is it a mirage?

What About Cable?

The technology that's getting the majority of the attention is cable Internet access. If you have cable television, you're already receiving hundreds of thousands of megabits of data every second in television signals. Wouldn't it be nice to harness some of that bandwidth to access the Internet? Although most cable companies aren't quite ready to provide Internet access, the technology is there. Depending on the equipment you use, you will be able to hook a cable modem to your computer, or directly to your television set so you can surf the Web using a special remote control.

For about 27,000 US households, cable Internet access is a reality today. There are four major providers of cable Internet access, and several smaller players, serving a smattering of locales. Chances that your area is covered today are not good. Industry execs expect that within three years, Internet access via cable will be an option for 30 million American households—a hefty number, but a far cry from the 67 million who subscribe to cable television today.

In order to offer Internet access via the same wire that your television signals travel on, your cable company allocates part of its bandwidth, enough to carry a TV channel or two, to Internet traffic. The cable company broadcasts incoming Internet packets to everyone, but unlike a TV signal, which can be seen by anyone who is tuned to that channel, each Internet packet has an address which ensures that only its intended recipient will see it.

Cable modems cost around $300. It is probable that when your cable company offers Internet access, it will rent the modem to you—or even loan it to you for free. The cost of Internet service is up to the cable company—today, prices range from $35 to $80 for all-you-want access, with $49.95 being about average. The access is fast and the connection is always up—you don't have to wait for a modem to dial, nor will you hear a busy signal.

Cable modems can theoretically deliver data at up to 350 times the speed of a 28.8Kbps modem, but you won't have all that speed to yourself. Cable access is a shared resource. Subscribers share the bandwidth with the cable customers on several nearby blocks. If every cable customer logs in to the Net at once (not likely) your access speed will slow down. On the other hand, if you're the only one online (also not likely) you get the bandwidth to yourself.

Sending data over cable isn't as easy as receiving it. Due to technical limitations most cable Internet services don't let you send data via cable. So hybrid systems, in which incoming data comes via cable but outgoing data travels on your phone line with a traditional modem, are most common. For Web browsing and downloading, this situation works nicely, since you're receiving a lot of information and sending very little. If you want to send gobs of data quickly—for instance, by setting up a Web server in your home or using videoconferencing to talk to grandma—this setup won't provide enough outgoing bandwidth.

DSL

DSL, Digital Subscriber Line, is an another emerging technology for high-speed access. For receiving data, DSL is 52–139 times faster than a 28.8Kbps

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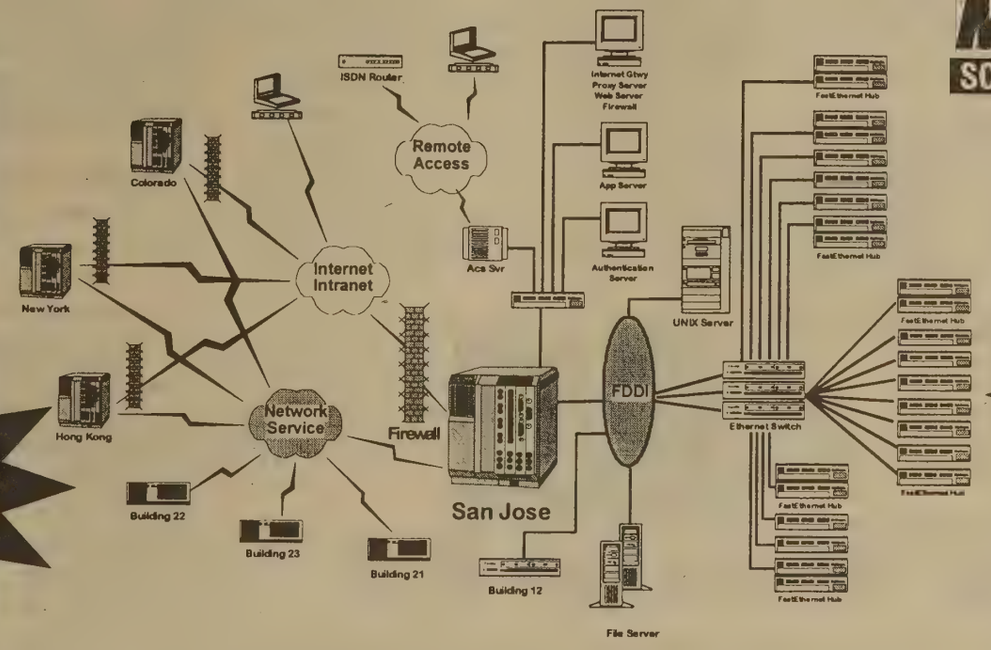

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High-Speed Internet Access *continued...*

modem. Like cable, it is much slower when sending data, at 2–17 times the speed of a modem.

Unfortunately, DSL is available in even fewer cities than cable Internet access. In addition, the hardware necessary to use it is expensive—equipment costs $450–$700. Although it uses the phone lines that are already in your house, it is still difficult to set up and costly. DSL has promise, but it is only ready for prime time for a handful of users.

Pacific Bell has make its DSL service—dubbed FasTrak DSL—available in a smattering of locales: the Peninsula, South Bay and East Bay. The service costs $125 to install and $80 to $250 per month for unlimited use, depending on maximum speed and whether it is for residential or business use. If you can afford the toll, you won't be complaining about the service's speed: 1.5 megabits per second, more than 10 times faster than an ISDN line.

"Wireless Cable"

"Wireless cable" is another option in a smattering of metropolitan areas. These services offer Internet access (as well as television channels) that are received with a dish or other antenna rather than via a wire linking your house to the cable company. Wireless cable is a reality today—at least in the few cities that are lucky enough to have it. Several systems for wireless access are being tested, including new frequencies and delivery via low-power television.

Satellite delivery of Internet data in another option—DirecPC (*www.direcpc.com*) pumps Internet traffic into space and bounces it back onto your computer at 400Kbps, but you'll need a small satellite dish, about $300, to get started. Sending data to the Internet occurs over a relatively slow 28.8Kbps modem. Unlike cable Internet access (and even modem access), satellite time is expensive, so DirecPC does not provide all-you-can-eat access: users are charged by the amount of information that they download. DirecPC only works with Windows computers—Macintosh users and users of other computer systems are out of luck.

Making Do And Planning For The Future

Is there high-speed Internet access in your future? Almost definitely. But unless you're one of the lucky few serviced by a wireless or traditional cable company on the cutting edge, probably not for a few months or even longer.

For the first few months it is available, it may be priced just out of the range that casual Internet surfers will find acceptable. Moderate users, businesses and power users will certainly plunk down $40 or even $60 a month for lightning-fast access, but its unlikely that the average weekend Web surfer will see a value at those prices.

You can't live at 28.8Kbps forever—and no one is asking you to try. If you can't wait for your local phone or cable companies to speed things along, satellite access is available to just about anyone. Otherwise you'll have to keep your eye on the horizon for the high-speed bandwagon, and be ready to jump aboard. ■

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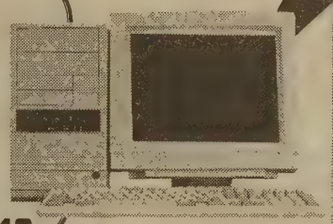

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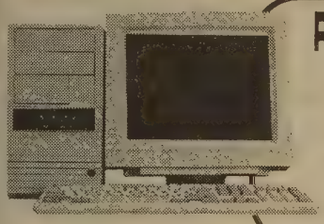

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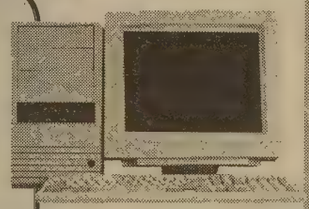

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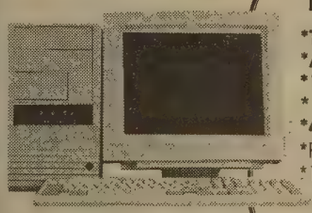

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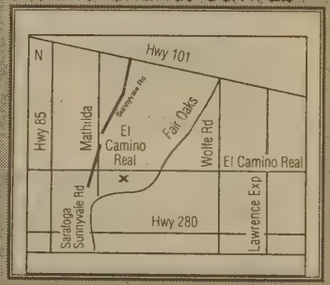


Web Page Listings

COMPUTER PRODUCTS & SERVICES

Aesthetic Solutions *http://www.aesthetic.com* Create dynamic 3-D worlds in minutes using our virtual reality authoring tools—free demo available! [Exp. #176.]

Alpha Innotech *http://www.alphainnotech.com* The leading manufacturer of digital imaging systems (DIS) for the life sciences and semiconductor industries. [Exp. #176.]

Aspen Systems, Inc. *http://www.aspsys.com* Motherboards, workstations, and servers based on Digital Alpha, Intel Pentium Pro, and Sun UltraSPARC chip technologies. [Exp. #176.]

AutoDoc 1.0 *http://www.osc.co.nz* AutoDoc is the latest technology in long document creation for the Microsoft Windows 95 and NT 4.0 platforms. [Exp. #176.]

California Support Calculator *http://www.pegasussoft.com* Pegasus Software offers the California Support Calculator for calculating child and spousal support in the California Family Law courts. [Exp. #175.]

Castelle *http://www.castelle.com* Castelle—pioneers of fax servers and print servers—offers products for LAN managers to optimize their network functions such as printing and faxing over the Internet and intranets. [Exp. #176.]

Cire Computers *http://www.jps.net/cire* Home-based computer systems, upgrades, Web design, consultation, etc. Also many links to the best Internet software. [Exp. #176.]

CM Solutions *http://www.cm-solutions.com* Management consulting and custom software design. [Exp. #175.]

Digitax Automotive *http://www.digitax.it* A complete line of taximeters. [Exp. #176.]

EAD Systems *http://www.ead.com* Providing monitor repair service in California and Massachusetts. [Exp. #176.]

FileMaker Pro Shopping Carts On The Web *http://www.blueworld.com/fmpro/carts/* The online directory of e-commerce Web sites using FileMaker Pro 3.0 and 4.0. Users can submit and search listings that showcase their online cyberstores. [Exp. #176.]

GuTech Industries *http://www.gutech.com* Systems consulting services. [Exp. #176.]

HiTek Solutions, Computer Education Centers *http://www.hiteksolution.com/hiteksolution/* Novell and Microsoft certification training providers. (714) 474-8270. [Exp. #176.]

Input Automation *http://www.inputauto.com/barcode* For 12 years, Input Automation has been developing, supporting and integrating bar code systems. [Exp. #176.]

LiveSpy Home Page *http://home.earthlink.net/~aoliver/LiveSpy.html* LiveSpy is a Windows 95 application that periodically updates your desktop wallpaper from an Internet camera. [Exp. #176.]

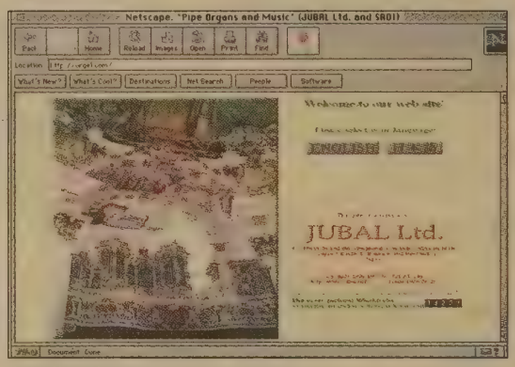
Low End Mac *http://www.mactimes.com/lowend* [Exp. #176.]

Macompass *http://www.macompass.com* The definitive guide for MacOS users. [Exp. #176.]

MFC Programmer's SourceBook *http://www.codeguru.com* An excellent online resource for Windows and Visual C++ programmers with lots of source code. [Exp. #176.]

Personalized Computer Services, Inc. *http://www.pcservicesinc.com* Custom-built computers and upgrade center. [Exp. #176.]

Phoenix Techni-Graphics *http://www.newwaveis.com/phoenix* Services, hardware, and software for hybrid CAD drafting and document management. [Exp. #176.]



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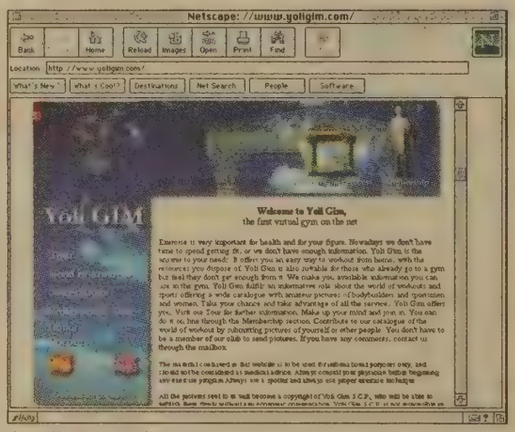

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AMULET Consulting *http://www.amuletc.com* We integrate Web site design with database software development; check out our vast range of services. [Exp. #176.]

Basic HTML Tags *http://www.geocities.com/Athens/Acropolis/5969/index.html* Calkid's University, offering lessons on HTML. [Exp. #176.]

Black Kat Design Group *http://www.black-kat.com* Black Kat Design Group creates extraordinarily beautiful and unique Web sites and offers hosting and maintenance. [Exp. #176.]

Creative Computer Solutions *http://www.hooked.net/~davemark/mactech.html* Web design for small businesses, schools, and individuals. Macintosh tech support and training also available. [Exp. #176.]

Dana Point Communications *http://www.beach.net* A complete network systems integrator providing full service Internet and intranet solutions for business. [Exp. #175.]

Datability Web Presence Provider *http://www.datability.com* A full service Web presence and design provider. [Exp. #176.]

deBarcode *http://www.deBarcode.com* deBarcode helps you to locate a company's Web site if you know its U.P.C. barcode. [Exp. #176.]

Digital Systems Design *http://www.dsysd.com* Web site design services: Web database publishing, online commerce, search engine registration, and animation. [Exp. #176.]

Free Basic Business Listings *http://www.worldprofit.com/bzmall/bzgonzalez.htm* Internet advertising. [Exp. #176.]

FreeCode *http://www.freecode.com* FreeCode archives the source code for over 300 Windows- and UNIX-compatible Web applications written in C/C++, Java, Perl, or Visual Basic. [Exp. #176.]

French Kiss *http://www.anes.com/FrenchKiss* This Web site provides people with a nice Java chat client. You can also set-up your own chat room by inserting the French Kiss applet on your Web site—for free. [Exp. #176.]

The Georgia Connection! *http://www.gaconnection.com* Web hosting, development, and advertising as low as $8.95 a month. [Exp. #176.]

Human Ingenuity Industries *http://www.ingenuity.net* Turnkey solution provider: Web design, consulting, hosting, networking systems, and parts. We take you each step of the way. [Exp. #176.]

Inside Java *http://www.inside-java.com* Inside Java provides a showcase of the latest Java topics with advanced Java examples, tutorials and a forum. [Exp. #176.]

Internet Presentations *http://www.ipresent.com/clients.htm* Web design, Internet/intranets, secured sites, and audio/video streaming. [Exp. #176.]

Your Bar Code Automation Solution Specialist

Since 1986 Variant Microsystems has been the leader in bar-code decoders, scanners, and data collection solutions. We offer you expert consultation, installation, service and support on all systems. Our product line includes hand-held, fixed-mount scanners, bar-code printers, RF systems.

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WK2080 Symbol Commercial Laser Scanner for PC . **$488**

QS-600 PSC QuickScan Bar Code Laser Scanner for PC. **$395**

WT-212 Track 2 Magnetic Card Reader for PC. **$89**

T-300 Zebra Thermal Printer **$595**

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Starting at $995

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We offer turnkey bar coding solutions: software customization, hardware set-up installation, training support.

INVENTORY ASSET TRACKING

Variant Microsystems offers software to track assets inventory, documents, etc. Most work in conjunction with portable data terminals for a complete solution.

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External wedge decoders allow you to connect undecoded bar code readers (laser, CCD, etc.) to your PC or UNIX terminal. Very programmable.

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Have us print your custom labels for shipping, asset tracking (serial numbers, retail scanning, UPC, etc.)

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Powerful, easy-to use Windows software. Design & print bard code labels, Windows 95 & NT compatible. Prints on all thermal laser, and dot matrix printers. **Any Label**, user friendly Windows based bar code printing software,

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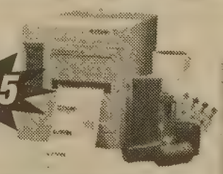

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Web Page Listings *continued...*

Links *http://www.linksfile.com* Trade URLs with any site listed with us for free! Make money on the Web! [Exp. #175.]

Money Search *http://www.moneysearch.com* A leading business and investment directory features an entirely new way to shop online. [Exp. #176.]

The MonkeyPool *http://www.monkeypool.com* We're a team of experienced Internet writers and editors who provide comprehensive content solutions for corporate Web sites. [Exp. #176.]

N-Tec Internet Consulting *http://www.n-tec.de* Internet solutions, Web design, multimedia projects, and consulting. [Exp. #175.]

National Direct Internet Yellow Pages *http://www.ndipy.com* Any business in any city can have a free listing in the National Direct Internet Yellow Pages Web site. [Exp. #176.]

NetNack Web Developers *http://www.netnack.com* We have a nack for the Net: design, writing, and programming. Complete from concept to posting. [Exp. #175.]

No-nonsense Email *http://www.ynnmail.com* Free secured email and secured data vault service. [Exp. #176.]

NT Host Web Services *http://nthost.net* Ultra-low-price Web, domain, and email hosting services. Our highest priority is customer service. [Exp. #175.]

Outta Site Web Design *http://www.drjack.com/outta_site* Creative Web page design and consultation. Large graphics and animation library. Great prices. [Exp. #176.]

P-Net *http://www.p-net.com/* P-Net offers complete design, service, and support for your Web pages, including HTML coding, CGI scripting, and scanning. [Exp. #176.]

Paradomain Corp. *http://www.pdc.net* Providing Internet services since 1993: 56Kflex, Web $29.95 for 50MB. Covering all of Southern CA. [Exp. #176.]

Pear Transmedia *http://www.peartransmedia.com* A full-house multimedia development and Web site design firm. From CD-ROMs and screen savers to graphic design and print. [Exp. #175.]

Ralenti Quickfind Building Product Information *http://www.ralenti.co.nz* Specializes in Web site design for the building Industry. [Exp. #176.]

San Jose Web *http://www.sanjoseweb.com* Web presence provider featuring MS FrontPage Extensions, Active Server Pages, database connectivity, and Internet access. [Exp. #175.]

Sponsor Town *http://www.hypermart.net/sponsortown/main.htm* Free Internet service: listing of free home pages, shell accounts, counters, and sponsors. [Exp. #176.]

Start Your Own ISP! *http://www2.apc.net/apcdocs/virtuali.htm* All-in-one hardware solution to get you started on your way to creating a lucrative Internet business! Easy and affordable! [Exp. #176.]

SurfIndia *http://www.surfindia.com* The most comprehensive Web service on India. [Exp. #176.]

Time Sheet *http://www.huffman.to/software/timesheet* Time Sheet is a dynamic HTML form used by employees for entering, calculating, and submitting hourly work records. [Exp. #176.]

Virtualis Systems Web Servers *http://www.virtualisys.com/vr/mjuneau/* Purchase virtual server space with your own domain name for less. [Exp. #176.]

Web MS Promote *http://www.webms.net/promote.html* Listing of the best sites to promote your Web page. [Exp. #175.]

Web Page Design *http://www.tnapowerteam.com/webmaster/design.htm* Web page design service. [Exp. #176.]

Web Site Garage Web Site Analysis *http://www.websitegarage.com* Check HTML, META tags, spelling, design, download, and links. Improve ranking on search engines. [Exp. #176.]

webCorporate *http://www.webcorporate.com* Web site packages and components that grow your business! You know how much it costs up front. We host. [Exp. #175.]

Wrox Ultimate HTML Reference Database *http://www.rapid.wrox.com/html4db* Covering all the HTML tags and attributes, together with descriptions, permissible values, and the equivalent CSS properties. [Exp. #176.]

ZapMap *http://www.zapmap.com* Interactive, vector-based geographic hotspot directory of Web sites in Silicon Valley, written in Java. [Exp. #176.]

SERVICES & PRODUCTS FOR SALE

Abendroth Consulting/Beratung *http://www.abendroth-consulting.com* Company information and demos. [Exp. #176.]

Action Wireless *http://www.actionwireless.com/* Cellular phone accessories. [Exp. #176.]

Advanced Technics *http://www.trulstech.se* Artificial Intelligence in combination with satellite communications. [Exp. #176.]

Alfa Romeo Dealer *http://www.salsocar.com* [Exp. #176.]

American Crane & Tractor *http://www.actparts.com* Supplying heavy equipment parts and components for Caterpillar machines for over fifteen years. [Exp. #176.]

Artist-In-Residence *http://www.shellsartspace.com* Art for sale, by the artist: one-of-a-kind, one at a time, vintage clothes, artwear, and decowork. [Exp. #176.]

Asbestos Consultant *http://www.ccienv.com* Asbestos project management. [Exp. #175.]

Astronomics *http://www.astronomics.com* Mail order retailer of astronomical telescopes and accessories, CCD equipment, bird watching and nature study binoculars and spotting scopes since 1979. [Exp. #176.]

Autocom Products *http://www.autocom.co.uk* Autocom Products—creators of the ultimate motorcycle intercom. The perfect blend of high-quality components and designs, offering the optimum in performance for speech, music, comfort and ease of installation. [Exp. #176.]

Bargains on Goods for the Whole Family! *http://www.shelleyshopping.com* Low prices on women's, men's, and kid's apparel, toys, etc. Online order form. MC and Visa. [Exp. #176.]

British Travel International *http://www.britishtravel.com* Travel services for Britain and Continental Europe. [Exp. #176.]

Business Management International Holding Corp. *http://www.bmi-usa.com* Business consulting, banking, financing, company formation, immigration, education. [Exp. #176.]

Business Products Express, Inc. *http://www.bpexress.com* Offering 25,000+ office products below superstore prices, delivered next day. Distributorships available. [Exp. #175.]

Carlisle Construction Co. *http://www.carlisleinc.com* Worldwide distributors of cranes, construction equipment, as well as excavation and marine services. [Exp. #176.]

Celebrity & Bikini Mouse Pads *http://www.primenet.com/~dpc/mousepads/* An inexpensive, killer gift for that Web geek friend that has no life. [Exp. #176.]

Claimtronics Network *http://claimtronics.com/computer_assist* A complete transportation claim-processing service dedicated to the household moving industry. [Exp. #175.]

Corporate Security Consultants *http://www.procon corp.com* Provides advice on international security issues. [Exp. #176.]

Crios Designs *http://www.crios.com* [Exp. #176.]

CyberMegaMall *http://www.cybermegamall.com/wa/cmm/owa/cmm_top page* The leading shopping mall on the Internet. [Exp. #176.]

CZ Jewelry *http://www.jewelersdirect.com* [Exp. #176.]

The Diesel Services Group *http://www.dieselservices.com* The Diesel Services Group provides leading-edge diesel fuel system and engine service, turbo rebuilding, machine-shop services and more. If you operate, repair, or own diesel equipment, there's something here for you! [Exp. #176.]

Earth's Aether: The Republic Of Earth *http://www.troeaaron.com/* Research, develop, and distribute products and services to help you earn lasting youth, health, wealth, and happiness. [Exp. #176.]

eBay—Online Auctions *http://www.ebay.com* eBay is the leading person-to-person online auction community on the Web. Thousands of antiques, collectibles, toys, coins, computers and more. [Exp. #176.]

Energy BioSystems Corp. *http://www.energybiosystems.com* A company commercializing biotechnology using bacteria to remove sulfur from oil. [Exp. #175.]

Filofax Specialist *http://www.faxcessory.co.uk* World-wide delivery of filofax wallets, binders and inserts. [Exp. #176.]

Flowers International *http://www.arach.net.au/flowersinternational* An Australian flower service offering fast mail-order fresh cut flowers to the UK and Europe. [Exp. #176.]

For My Baby *http://www.formybaby.com* Unbeatable prices for baby strollers, educational and developmental toys, and other accessories for newborn to preschool age children. The site features a searchable database and information about each product. [Exp. #175.]

Free Internet Business *http://members.spree.com/shop&bepaid* Sign with Spree.com and start earning money today. [Exp. #176.]

GDMS *http://pw2.netcom.com/~shivatec/GDMS.html* Analytical service: glow discharge mass spectrometry. [Exp. #176.]

Hackers Home Page *http://www.hackershomepage.com* They have over 300 plans, kits, and assembled products for the serious hacker, phreak, cracker, spy, and electronics enthusiast. International sales and inquiries welcomed. Don't miss this one! [Exp. #176.]

Harley-Davidson/All-American Online Motorcycle Swap Meet *http://www.mcswap.com* Classified ads for bikes and parts, an accessories manufacturers "Harley Mall," message board, chat, event listings, and even biker personals. [Exp. #176.]

Hats & Bags Manufacturer *http://www.wangtai.com* Reliable manufacturer. [Exp. #176.]

Hobby Builders Supply *http://www.miniatures.com* Over 3,000 dollhouse and miniature items at discount prices. [Exp. #176.]

Holt Educational Outlet *http://www.holtoutlet.com* Educational toys and teachers supplies at 10% to 50% off. [Exp. #176.]

Home Exchange *http://www.HomeExchange.com* Thanks to the Internet and HomeExchange.com, anyone planning a trip can browse a convenient current list of homes in countries all over the world. [Exp. #176.]

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- 512K Pipeline Burst Cache
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- 16X CD-ROM Drive
- Sound Blaster 16 Compatible Card
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- 104-Key Keyboard
- MS Compatible Mouse
- Windows 95

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586 SYSTEMS

- Intel Pentium® Processor
- P-5 Motherboard, Triton Chipset
- 512K Pipeline Burst Cache
- 32MB EDO RAM
- 2.5GB Hard Drive
- 24X CD-ROM Drive
- 1.44MB Floppy Drive
- ADI 4P
- Diamond Stealth 3D w/4MB EDO
- Sound Blaster 16 Compatible
- Microsoft Compatible Mouse
- Amplified Speakers
- Mini Tower Case w/PS
- Maxi Nova Keyboard
- Windows 95

P-150 .....$1,109
P-166MMX $1,139
P-200MMX $1,239
P-233MMX $1,339

PENTIUM® II SYSTEMS

- Intel Atlanta Motherboard
- 32MB SDRAM
- Western Digital 4.3GB Hard Drive
- Diamond Viper V330 w/4MB SGRAM
- Teac 1.44 Floppy Drive
- Toshiba 24X CD-ROM Drive
- Integrated Yamaha Sound Card
- ADI 5P 16" Viewable Monitor
- MS Natural Keyboard
- ATX Medium Tower Case
- Altec Lansing Speakers w/subwoofer
- Window 95
- Microsoft Intellimouse
- Supra 56K Fax/Modem

Pentium® II-233MHz....$2,129
Pentium® II-266MHz....$2,279
Pentium® II-300MHz....$2,549

MULTIMEDIA

NEC 15X SCSI CD-ROM Drive	$139
Mitsumi 16X CD-ROM Drive	69
Sound Blaster 16	50
Sound Blaster 64	85
Stereo Speakers	from 10

TV - VIDEO CAPTURE

Miro Video Capture	$279
Connectix Quickcam Color	239

NOTEBOOKS

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ATX Full-Tower	119
Server Tower w/Dual Fan & 250W PS	109

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Stealth 64, 3D EDO 4MB	89
Stealth 4MB VRAM 3D	169
Matrox Mystique 2MB SG RAM	129
Matrox Millennium 4/8MB	179/269

KEYBOARDS

Maxi Nova	$25
Keytronic	30
Focus 2001	35
MS Natural Keyboard	75
Cirque Glidepoint Keyboard	89
Keytronic Wireless Keyboard	89

HARD DRIVES

1.6GB IDE	$165
2GB IDE	179
2.5GB IDE	189
3GB IDE	209
4.3GB IDE	249
6.4GB IDE	309
2GB SCSI	239
4GB SCSI	589

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MONITORS

SVGA NI 1024x768 .28dp 14"	189
ADI 4P 1280x1024 .28dp 13.8" Viewable	299
ADI 5P 28dp16"Viewable	499
Sony 100SX 15"	379
Sony 200SX 17"	719

MICE

3-Button Mouse	$10
Logitech 2-Button	22
MS Mouse/Bus	49/79
Logitech Mouseman/Bus	39/69
Logitech Marble Trackman	85
Kensington Expert Mouse	99
Alps GlidePoint Mouse	69

CONTROLLERS

IDE Controller 2FD/2HD	$15
IDE I/O Controller	18
Promise 2300 Plus	59
Adaptec 2842VL SCSI	239
Adaptec 2940 PCI SCSI	189
Adaptec 2940U Wide SCSI	259

MOTHERBOARDS

Pentium®-150 PCI w/CPU	$209
Pentium®-166MMX w/CPU	239
Pentium®-200MMX w/CPU	339
Pentium® II-233MHz w/CPU	609
Pentium® II-266MHz w/CPU	759
Pentium® II-300MHz w/CPU	1,029

PRINTERS

Hewlett Packard

DeskJet 870CXI	$399
LaserJet 6LXI	399
LaserJet 6PXI	799
ScanJet 5P	299
LJ 4000	1,169

MODEMS

US Robotics 33.6 Int./Ext.	$99/169
US Robotics 56.6 Int./Ext.	189/209
US Robotics 56K PCMCIA	249

TAPE BACKUPS

Colorado 4000S Int.	$399
Colorado 3.2GB Int.	179
Iomega Zip Drive IDE Int.	125
Iomega Zip Drive SCSI Ext.	169
Iomega 1GB Jaz Drive Ext.	399

NETWORKING

8-Port Hub	$79
16-Port Hub	199
3COM 8-Port Hub	139
3COM 3C509 T/P/Combo	59/89
3COM 3C509 PCMCIA 10BT/Combo.	159/189
3COM 3C900TP/3C900C.	69/89
3COM 3C905.	79
SMC Elite Combo	95

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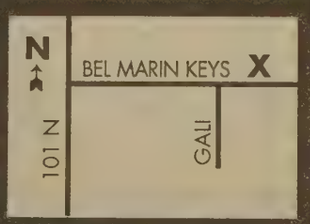

*Dealer Inquiries Welcome*Volume Discount Available*Price subject to change without notice*Trademarks are registered by respective companies

Online Guide

Web Page Listings *continued...*

Houston Stained Glass Supply *http://hsgs.com* Wholesale glass supplies. [Exp. #175.]

Ignition Interlock Group Home Page *http://www.ignitioninterlock.com* A national ignition interlock service provider. [Exp. #176.]

IVS, Inc. *http://www.ivsincorporated.com* IVS specializes in repair and support of industrial automation equipment, as well as repairs for computers and peripherals. [Exp. #176.]

Jewelry Mall *http://www.jewelrymall.com* Everything about jewelry: stores, gem and jewelry show dates, birthstones, wholesale, and more. [Exp. #176.]

Katherine Ray's Web Site *http://www.katherineray.com* Home page of Katherine Ray products. [Exp. #176.]

Knilans & Associates *http://toyreps.com* The educational toy specialists. [Exp. #176.]

L.A. Food Services *http://www.lafoods.com* Food and vending services. [Exp. #175.]

Le Fay Herbal Concoctions *http://www.lefayherbs.com* Luxurious potpourri blends, rich fragrance oils and soothing, luxurious herbal baths—perfect as a gift for any occasion. [Exp. #176.]

Louisiana-Pacific Corp. *http://www.lpcorp.com* Portland, OR-based, a major manufacturer of building materials, industrial wood products, and pulp. [Exp. #176.]

Lucy Mac Children's Store *http://www.lucymaxchildrensstore.com/* Offers the original Baby Bunting carrier for newborns. Baby shower gifts, children's clothes, and more. [Exp. #176.]

Lucy's Knits *http://web.dreamcom.net/~lueknits* Shop for hand knitters. [Exp. #175.]

Lux Transfer & Storage *http://www.luxtransfer.com* Atlas Van Lines agent: Industry leader in relocation's via the Internet. [Exp. #175.]

Madely's Collectibles & Things *http://members.aol.com/madelys/index.htm* Fine porcelain dolls, resin, poly resin and porcelain figurines, and gifts. [Exp. #176.]

Micro-Matics Corp. Home Page *http://www.micro-matics.com* [Exp. #176.]

Millers Rentals & Sales *http://www.millers-rentals.com* Complete party rental service—tents, tables, chairs, staging, fine china, linen, weddings, corporate events. [Exp. #176.]

Morning Glory Floral Design *http://members.aol.com/mnglory* Features wedding flower arrangement, wedding planning, and general floral design information. [Exp. #176.]

Mr. Fruit, Inc. *http://www.mrfruit.com* The finest Florida gift fruit from the Indian River region. [Exp. #176.]

N-Ternet Business Center *http://www.conentusa.com/n-ternet/* Free classifieds and business opportunities. [Exp. #176.]

Ocular Inc. *http://www.ocularusa.com* Leading manufacturer of standard and custom-made LCD/ LCD modules, TN, STN, FSTN, LCD backlight modules, custom LCD modules, COB modules, chip-on-board, heat seal connectors, and LCD shutters. [Exp. #176.]

Owner *http://www.elizabethsetc.com* Wedding business. [Exp. #176.]

Palmer Detective Agency *http://www.members.aol.com/dashiell41/index.html* All cases performed by former law enforcement personnel: criminal, civil, and private matters handled. (CA Lic. #PI 16132) [Exp. #175.]

Personal And Executive Coaching *http://www.paxconsulting.com/coach.html* Coach Peter Fahrenkamp has coached people successfully since 1992 in the US and Europe. [Exp. #176.]

Precision Private Security *http://www.cyberspacelaws.com/precision.htm* A Security Guard Services company in L.A. with great rates. Member of the BBB. [Exp. #176.]

Prevent A Ding *http://www.readysetnet.com/prevent.html* Helping you to protect your vehicle from common parking lot dings while advertising your business. [Exp. #176.]

Printing *http://www.unigraphic.com* Commercial Web and sheet fed printer. [Exp. #176.]

Provident Companies *http://www.providentcompanies.com* Specializing in disability insurance, employee benefits, and personal Insurance. [Exp. #176.]

Rent-An-Inventor *http://www.rent-an-inventor.com* Helping companies create products from concept to completion. [Exp. #176.]

Robert Scott—Cognigen Agency *http://ld.net/?phonesal* Looking for competitive long-distance rates and international calling plans? Also offering prepaid phone cards. [Exp. #176.]

ScreenCo *http://www.screenco-online.com* ScreenCo brokers advertising specialty products including a large variety of screen-printed and embroidered apparel items as well as a variety of non-wearables. [Exp. #176.]

Search4People *http://members.aol.com/jlxent/search4people.htm* Person locating services using millions of consumer reporting agency files, driver license files and public records to find and locate lost family members or friends are available. [Exp. #176.]

Sell Your Civil Court Judgment *http://personal.bna.bellsouth.net/bna/f/g/fguzman/judgments.html* I buy civil court judgments on bad debt, back child support, divorce settlements, etc. [Exp. #175.]

ShrinkTank *http://www.shrinktank.com/* Psychology program and text files, links to testing sites, other psychology software sites. [Exp. #176.]

The Snowboard Shop *http://www.thesnowboardshop.com* The online source for discount snowboard gear. [Exp. #176.]

Solutions In Cold Rolled Sections *http://www.sadef.be* Service center for sections and welded shapes. [Exp. #176.]

SoundStone.com *http://www.soundstone.com/* Offering a vast catalog of CD titles, discounted at up to 20% off standard retail prices. [Exp. #176.]

Sourdough Baker *http://www.sourdoughbaker.com* Bakery: sourdough and traditional breads. [Exp. #175.]

Spa Cover Protector *http://home.inreach.com/spasoks/* Protects your spa cover from the sun. Five-year warranty. [Exp. #175.]

TeamHayden.com *http://www.hayden.ca* The largest single source of central vacuum information. Continually adding new information and updates, including how to make your home healthier and reduce childhood asthma. [Exp. #176.]

Terri's Special T's *http://www.brookesline.com* A line of baby clothes and accessories. [Exp. #176.]

TicketWeb, The Online Ticketing Alternative *http://www.ticketweb.com* TicketWeb uses the Internet to sell low-cost tickets for events across the country. [Exp. #176.]

UK Hotels And Conference Facilities *http://www.venuedirectory.com* [Exp. #176.]

UnCommon Courtesy *http://www.uncommoncourtesy.com* Motivational email service. [Exp. #176.]

Venus Systems *http://www.angelfire.com/biz/bactank/index.html* Bioremediation products. [Exp. #176.]

Video Imaging And Optical Products *http://www.marscam.com* Monitors/panels, CMOS cameras, CCD cameras, board cameras, lenses, pinhome lenses, fiberscope, and video capture systems. [Exp. #176.]

Video Plus *http://www.videosplus.com/biography/* Dozens of biographical videos including the A&E series and American Women of Achievement series. [Exp. #176.]

Water Well Pump Supplies Wholesale *http://www.sdapump.com* Selling direct to the public. [Exp. #176.]

Waterman Industries, Inc. *http://www.watermanusa.com* Water control equipment and irrigation. [Exp. #176.]

Watermark Sales And Distribution *http://netnow.micron.net/~cbilyeu/watermark.html* Distribution and marketing of newly patented items. [Exp. #175.]

Wirthlin Worldwide *http://www.wirthlin.com* [Exp. #176.]

Wood Architects *http://www.visionimaging.com/* Specializing in commercial, public, and accessible building in association with VisionImaging to provide digital computer color graphics and designs for many applications. [Exp. #176.]

World's Largest Candy Store Online *http://www.candydirect.com* Thousands of product choices. Free candy club with chat. [Exp. #176.]

FINANCIAL/ REAL ESTATE SERVICES

Adviesburo van Groote *http://www.horecanet.nl/grootel* Real estate for restaurants in the Netherlands. [Exp. #176.]

Banco Bozano, Simonsen *http://www.bozano.com.br/iindex.htm* The best Brazilian investment bank. [Exp. #176.]

Bob Taylor's OnLine Real Estate Guide *http://www.bob-taylor.com* Discover the historic communities of Northeast Los Angeles. Includes information on mortgage financing, first time buyer programs, home maintenance and more! [Exp. #176.]

Castle Resale *http://www.castle-re-sale.com* Specializing in resale homes in Orange County since 1971. Worldwide referral and relocation, income properties and exchanges. [Exp. #175.]

Chapman Spira And Carson LLC, Investment Banking *http://www.chapmanspira.com* Historical and current economic articles written in understandable language. Some of the material is very unique and we believe that anyone can learn something from this site no matter how sophisticated or whatever the background. [Exp. #176.]

deBeer Realty *http://www.maui.net/~debeer/* A full-service real estate company, serving Maui for nine years. [Exp. #176.]

Dump Debts *http://www.webspawner.com/users/DumpDebts/* Stop all your creditors without filing bankruptcy. Sue them if they refuse to leave you alone! [Exp. #176.]

Fleming Fund Management *http://www.fleming.lu* The leading cross-border provider of funds in Europe. [Exp. #175.]

Pacific Palisades *http://www.PALISADESHOMES.com* Pacific Palisades real estate information. [Exp. #176.]

PBTK Online *http://www.pbtk.com* CPA firm. [Exp. #176.]

Petty & Butler Realty, Inc. *http://www.pbr.com* Internet advertising of PBR, home listings, agents, and services. [Exp. #176.]

Seattle Area Homes *http://SeattleAreaHomes.com* Two huge northwest real estate databases. [Exp. #176.]

Synergistics Research Home Page *http://synergisticsresearch.com* Financial services market research organization. [Exp. #176.]

Welcome to Mainstreet-USA *http://www.mainstreet- usa.com* Farm Credit Services provides financial services to agricultural and rural communities. [Exp. #176.]

EMPLOYMENT/ EDUCATION

Asia For Kids Educational Catalog *http://www.afk.com* Your best resource for language and culture. [Exp. #175.]

Career Database, Inc. *http://www.careerdatabase.com* Celebrating our tenth year as the world's only formalized database matching an individual's employment history to company and recruiter's search criteria. [Exp. #176.]

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PowerBook 2400C	603e/180	1.3GB	16MB	-	$2,195
PowerBook 1400C	603e/133	1.3GB	16MB	8xCD	$1,995

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PowerMac 4400/200 DOS PC166/603e200MHz 32/2GB, 12XCD $1,395
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PowerMac 8600/250	604e/250	4GB	32MB	24XCD	$1,995
PowerMac 9600/300	604e/300	4GB	64MB	24XCD	$2,795
PowerMac 9600/233	604e/233	4GB	32MB	12XCD	$2,295

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MultiScan 19" Color $495
MultiScan 1705 / 1710 17" $365 / 545
MultiScan 20" $1095

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Armada 7750MT	P166MMX	16/2.1GB	12.1"TFT	$2,995
Armada 7710MT	P150MMX	16/1.6GB	12.1"TFT	$1,795
Armada 7330MT	P150MMX	16/1GB	12.1"TFT	$1,895
Armada 1550DMT	P133MMX	16/1.4GB	12.1"TFT	$1,995
Armada 4160T	P166MMX	16/2GB	12.1"TFT	$2,195
Presario 1080	P166MMX	16/1.4GB	12.1"TFT	$2,195
Presario 1610	P150MMX	16/1.6GB,CD	12.1"DSTN	$1,795
Presario 1210	P150	16/1.4GB, CD	12.1"DSTN	$1,595
LTE 4/75CX	DX4/75	8/510MB	9.5"TFT	$995

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T-510CDT P133, 16/2.1GB, 12.1" TFT, 10xCD $1,995
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Libretto 50CT	P75	16/810MB	6.1"TFT	$1,275
T-220CDS	P133	16/1.3GB	12.1"DSTN	$1,495
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T-440CDT	P133MMX	16/1.35GB	12.1"TFT	$2,195
T-460CDT	P166MMX	32/2.1GB	12.1"TFT	$2,795
T-530CDT	P166MMX	32/2.1GB	12.1"TFT	$3,595
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T-660CDT	P150	16/1.35GB	11.3"TFT	$1,999
T-730XCDT	P150MMX	16/2.1GB	12.1"TFT	$2,395
T-740CDTMMX	P166MMX	16/3.0GB	13.3"TFT	$3,295

T-440CDX P133MMX, 16/1.35GB, 12.1" DSTN, 10xCD $1,595
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DeskJet 1600C/CM	9ppm, 600dpi	$1,145/1,475
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Web Page Listings *continued...*

Digital Station *http://www.digitalstation.com* Covering computer and Internet-related employment, events, and news in the San Francisco Bay Area. [Exp. #176.]

John Cabot University *http://www.johncabot.edu* Offering study abroad programs and conferring Bachelor's degrees in Art History, Business Admin., Political Science, and English Lit. [Exp. #176.]

Mr. Brain Tutor *http://members.tripod.com/~russmcor/tutor.htm* Live teachers online: tutoring in mathematics, English, computer programming, history, writing, etc. [Exp. #176.]

Prairie Resource Group, Inc. *http://www.prgchicago.com* Prairie Resource Group, Inc. modularizes the executive search process offering customized services on an hourly fee basis, with no contingencies. [Exp. #176.]

Register-It *http://www.registerit.com* Search engine registration and Web site promotion. [Exp. #176.]

Star Technology Group *http://www.startechnology.com* Search firm. [Exp. #176.]

The Tutoring Center *http://home.pacbell.net/tutcen/index.html* Tutoring in math and science for junior high to college. [Exp. #176.]

Union Job Clearinghouse *http://www.unionjobs.com* Posting the open staffing and trades positions in organized labor that are now accepting applications. [Exp. #176.]

ORGANIZATIONS

4work.com *http://www.4work.com* Helping non-profit recruit volunteers on the Internet. [Exp. #176.]

American Biomedical Group *http://www.abgi.net* Helping healthcare achieve maximum cost savings by bringing together engineering, financial and information excellence. [Exp. #176.]

Association Of Macintosh Trainers *http://www.cypher net.com/amt* The purpose of the association is to establish an international network of Apple Macintosh computer trainers, instructors and educators that is easily accessible to end-users and to help facilitate and improve upon the quality of Macintosh computer support. [Exp. #175.]

Claremont Institute *http://www.claremont.org* [Exp. #176.]

Cult Awareness Resources, CARES *http://cares-care.org* Provides information to the campus community about cult activity, including International Churches of Christ information. [Exp. #176.]

Diabetes Wisdom *http://www.claimtronics.com/diabeteswisdom* Offering Diabetes support groups, educational classes, and nutritional therapy. One-on-one with a CDE. [Exp. #176.]

FAT: Fat And Terrific *http://users.ccnet.com/~avery/FAT.html* Bimonthly fat-positive resource and activities newsletter. Meetings third Saturdays of every month. [Exp. #176.]

Foundation For Role Equity Education *http://www.angelfire.com/ok/4equity/* Articles about nontraditional methods of achieving equity. [Exp. #176.]

FXI—Freedom Of Expression Institute *http://wn.apc.org/fxi* [Exp. #176.]

IBEW *http://www.ibew569.org* Labor union for electrical workers in construction, shipyard, low-voltage, and others in San Diego, CA. [Exp. #175.]

ICCA Silicon Valley *http://www.icca-sv.org* The public is invited to the regularly scheduled dinner meetings, fourth Tuesday of every month in San Jose. [Exp. #175.]

J Bellen, D.D.S. *http://www.jbellen.com* Center for Aesthetic Dentistry. Professionals in aesthetic and restorative dentistry. [Exp. #176.]

Jefferson Club: Technologists For Capitalism *http://www.ipser.com/jeffersonclub* [Exp. #176.]

Los Angeles Chapter Of The Internet Society *http://www.usserver.com/isocla/* ISOC LA is a local chapter of the International ISOC *(www.isoc.org)*, a non-profit organization promoting the Internet and its Netizens globally. [Exp. #176.]

Los Angeles Macintosh Group *http://www.lamg.org* Non-profit user group offers training programs, meetings, monthly magazine, employment, networking, and tech support. [Exp. #176.]

National Center For Employee Ownership *http://www.nceo.org/* Articles, columns, discussions, and interactive training on employee stock ownership plans, stock options, etc. [Exp. #175.]

Native American Women's Health Education Resource Center *http://www.nativeshop.org* [Exp. #176.]

NOCCC (North Orange County Computer Club) *http://www.noccc.org* Web page of computer user group. Meetings: 1st Sunday of the month, 9:00 am, Chapman University, 333 N. Glassell Ave., Orange. [Exp. #176.]

Orange County NetWare Users Group *http://www.computerquest.com/cns/ocnet/* Web site that lists meeting topics, dates, and membership info. [Exp. #176.]

Peninsula Computer Club *http://www.serius.com/~jlo/* [Exp. #175.]

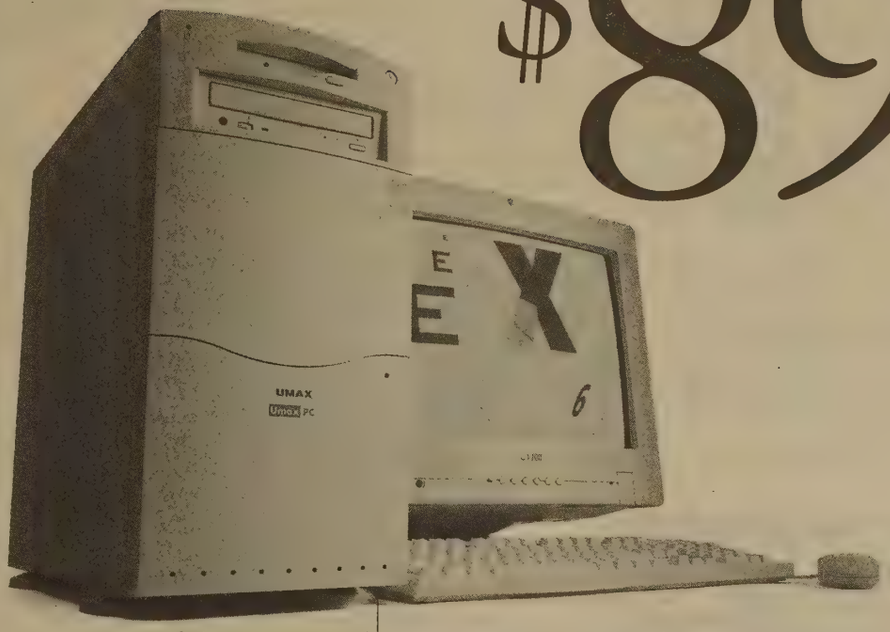
Point Mugu Navy Flying Club *http://www.geocities.com/CapeCanaveral/Lab/1594* Navy T-34 flying club located at the Camarillo, CA airport. Primarily training and recreational flying. [Exp. #175.]

San Francisco FreeBSD User's Group *http://www.arachna.com/freebsd/freebsd-sf.html* Meets the second Thursday of every month in San Francisco to discuss "Turning PCs into workstations." [Exp. #175.]

SEIU Local 250 *http://www.seiu250.org* Local 250 represents over 40,000 healthcare workers in California. [Exp. #176.]

Silicon Valley Association of Software Entrepreneurs *http://www.svase.org* Catalyzing the launch of successful software businesses. [Exp. #176.]

200MHz Pentium with MMX *and* Monitor for $899.



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Online Guide

Web Page Listings *continued...*

Sutter Lakeside Hospital *http://www.sutterlake.org* Description of hospital services, community and job openings. [Exp. #176.]

Technical & User Groups Network *http://www.tugnet.org* 24-hour bulletin board, meeting calendar, membership info., articles, reviews. [Exp. #175.]

Telegraph Hill Dwellers *http://www.overmire.com/thd* A San Francisco neighborhood association with news about events, people, history. [Exp. #176.]

Unofficial Nintendo-64 Home Page *http://www.ninentdo64.org* Members only. [Exp. #176.]

PUBLICATIONS

Aboriginal Independent Newspaper *http://www.akai.com.au/* The Aboriginal Independent Newspaper is a self-determination project begun by a group of Nyoongar Aboriginal people in Western Australia. [Exp. #176.]

Antigo Area Shoppers Guide *http://www.antigoshopper.com* A weekly publication with online classifieds serving north central Wisconsin. [Exp. #176.]

Bill Bradley Listening *http://thirdage.com/bradley/* A new monthly interactive column written by former US Senator Bill Bradley. [Exp. #176.]

Comics Conspiracy *http://www.comicsconspiracy.com* Comics retail and publishing. [Exp. #176.]

Confucius Publishing Co. Ltd. *http://www.confucius.org* Confucius' sayings and information in sixteen languages plus over 200 rare pictures. [Exp. #176.]

Defence Systems Daily *http://defence-data.com* The Internet's premier daily news magazine for the international Defence and Aerospace industry. [Exp. #176.]

Easy Jewish Cooking *http://www.jcn18.com/scripts/jcn18/paper/Index.asp?ColumnID=102* Cooking articles and recipes by Rosalyn Manesse, author of the book *Easy Kosher Cooking.* [Exp. #175.]

Edition Shimizu *http://www.chabashira.co.jp/~dmano/* An international e-zine for communication, art, education, and cross-cultural understanding. Japanese and English editions. [Exp. #176.]

Electronic *http://home1.gte.net/tstudios/e-pub.html* Thompson Studios can convert your manuscript into an electronic book. You can then market and distribute via the Internet. [Exp. #175.]

LaoSearch & Southeast Asia Country *http://www.angelfire.com/ca/laoscom/* A Web directory for information on Laos and other Southeast Asia countries. [Exp. #176.]

Latin American Arts & On-Line Journals And News *http://www.syspoint.com.br/joycelarronda* Gallery of Latin American artists and special professional news for intranets. [Exp. #175.]

Montana Magazine *http://www.napias.com/mtbooks.html* Montana pictorial books direct from publisher in Helena, MT. [Exp. #176.]

New Information And Communication Technology In Africa: A Bibliography Of Online References *http://www.untpdc.org/untpdc/incubator/africa/biblio.html* . [Exp. #176.]

Obesity Meds And Research News *http://www.obesity-news.com/* Online newsletter and Web site on obesity research. Hard copy also available. [Exp. #176.]

Pixel Plane *http://www.pixelplanet.com* Reviews of computer graphics software, books, games, comics, programming tools, movies, laser discs, music and more. [Exp. #176.]

Tech Resources Unlimited *http://www.trucorp.com* Computer technology books and software store. [Exp. #176.]

Trans-Atlantic Online *http://www.transatlanticpub.com* Wide variety of books available from Trans-Atlantic Publications. [Exp. #176.]

Two Dog Press *http://www.twodogpress.com* Publishers of distinctive and memorable books of poetry and books about dogs. [Exp. #176.]

unGROOM'd *http://www.ungroomd.com* The men's perspective on engagement, marriage and what follows. [Exp. #176.]

Whitepapers With Attitude *http://www.jkworld.com* A monthly newsletter for people who deploy enterprise groupware. [Exp. #176.]

ODDS & ENDS

Advanced Kinesiology Concepts *http://www.geocities.com/hotsprings/7756/* Innovative approaches to holistic health using advanced kinesiology, radionics, and huna. [Exp. #176.]

Awareness Holistic Books And Information Center *http://www.jps.net/aware* Holistic health, books, info, gifts, and classes in San Mateo. [Exp. #175.]

Bottled Water Web *http://www.bottledwaterweb.com* Everything you need to know about bottled water, including new bottler's profiles, resources, links, and classified ads. [Exp. #176.]

Central & East European CrimiScope *http://www.ceeds.com/cee-crimiscope* CEE CrimiScope's mission is to enhance worldwide awareness and support of the fight against crime, corruption, and terror in Central and Eastern Europe. [Exp. #176.]

Franco Manenti snc. *http://www.manenti.it* Church ornaments and religious articles. [Exp. #176.]

Hatha Yoga *http://www.geocities.com/~skrshnananda/Hatha.html* [Exp. #176.]

Kid Vision *http://www.kid-vision.com* See live video of your child in day care over the Internet! [Exp. #176.]

King & Queen Of Hearts *http://www.geocities.com/westhollywood/6482* A fund raiser for Friends for Life. [Exp. #176.]

Korea Narrow Loom Iron Works *http://soback.kornet.nm.kr/~sepok* Manufacturer of high-speed narrow fabric needle loom, knit braiding machine, winder, warping machine etc. [Exp. #176.]

Medic Alert Home Page *http://www.medicalert.org* Emergency medical information and identification (ID). [Exp. #176.]

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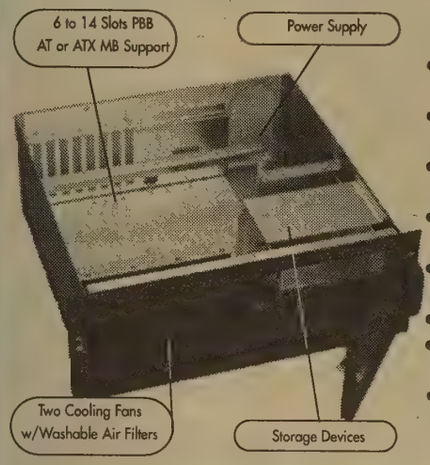

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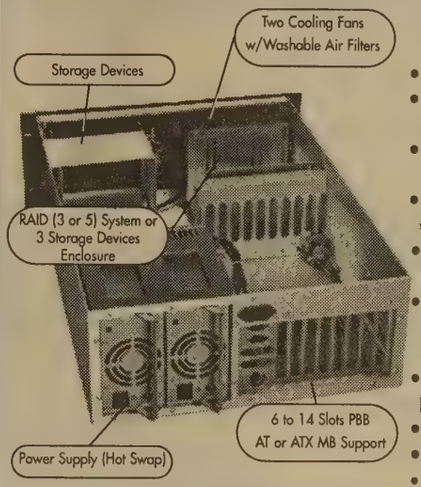

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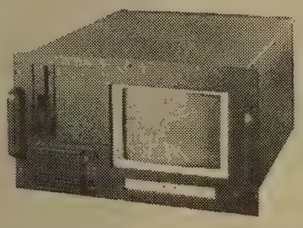
- Faceplate Dimensions: 19"W x 7"H
- Chassis Dimensions: 17"W x 7"H x 24"D
- Weight: 17 lbs. w/o Power Supply
- Expansion: PCI/ISA Passive Backplane (6-14 slots)
- Power Supplies: 230,250, 300 to 400W Hot Swapable Power Supply (250-400W optional)
- Cooling Fans: Two 60 CFM Intake Fans
- RAID Level 5 11.2GB HD
- Door: Dustproof & Lockable
- Up to Nine Storage Devices

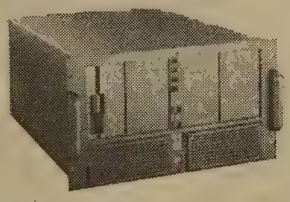
MADE IN U.S.A.

19" RACKMOUNT w/MONITOR



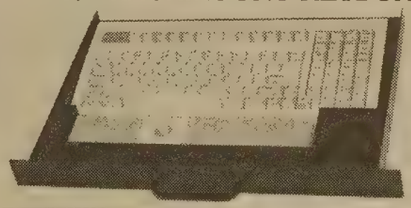
- 19" Rackmounting
- Integral Monitor
- 10".28 dot pitch SVGA Color
- 9" Mono-TTL or VGA
- 8 or 14 Slot Passive Backplane
- 8 Slot Motherboard Mounting
- U.S.A. Manufactured

HARD DISK CD-ROM ENCLOSURE



- 8, 14 & 20 Slot Options
- Dual Power Supplies
- Hot Swappable Redundant Power Supplies (Optional)
- 8 Drive Bays
- 8 Fans
- Motherboard or Passive Backplane
- 200-600 Watt Power Supply
- U.S.A. Manufactured

19" RACKMOUNT KEYBOARDS



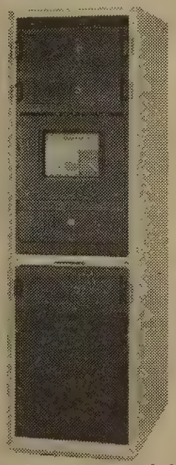
RMK-102

- Space for Mouse or Trackball
- Switch Selectable for PC XT/AT or PS/2
- 20,000,000 Life Cycles per switch
- Separate Numeric and Cursor Keys
- Twelve Function Keys
- Suplied 22" Sliding Rail for 19" Rack
- 19" (W) x 1.75 (H) x 16.5" (D)

RMK-102TB w/ Trackball

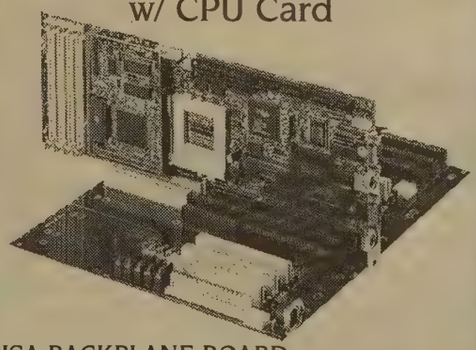
- Compatibility: Microsoft &/or PS/2 PDP
- Interface: RS-232C or PS/2 PDP
- Connector: DB-9 Serial or 6-pin Mini DIN
- Encoder: Opto-mechanical
- Tracking Speed: 500mm/sec. (20"/sec.)
- Switch Lifetime: 1 Million Cycle
- 19" (W) x 1.75 (H) x 16.5" (D)

RACK MOUNT CABINETS



From 21"–78" Available

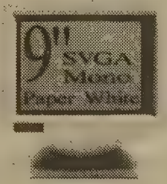
PASSIVE BACKPLANE BOARD w/ CPU Card



-ISA BACKPLANE BOARD
3 to 20 Slots
-PCI BACKPLANE BOARD
8, 14, 20 Slots
-Segmented Backplane Available

9" SVGA MONITOR MONO PAPER WHITE

- CRT: 9" DEFLECTION NON-GLARE PAPER WHITE
- RES: 1024x768, 720x400, 640x480
- POWER SUPPLY: 100-240V



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- World Wide Web Access
- Personal Web Hosting
- Personal FTP Site
- No Set-up Fee

Business Accounts — $29.95

- Unlimited PPP Access
- UNIX Shell/CGI
- Disk Space 50MB
- World Wide Web Access
- Three E-mail Aliases
- Corporate Web Hosting
- Corporate FTP
- Set-Up Fee $20

Additional Accounts & Services

Family Plan $39.95 — Shell Account $14.95
Co-Location $200 — Virtual Domain $10

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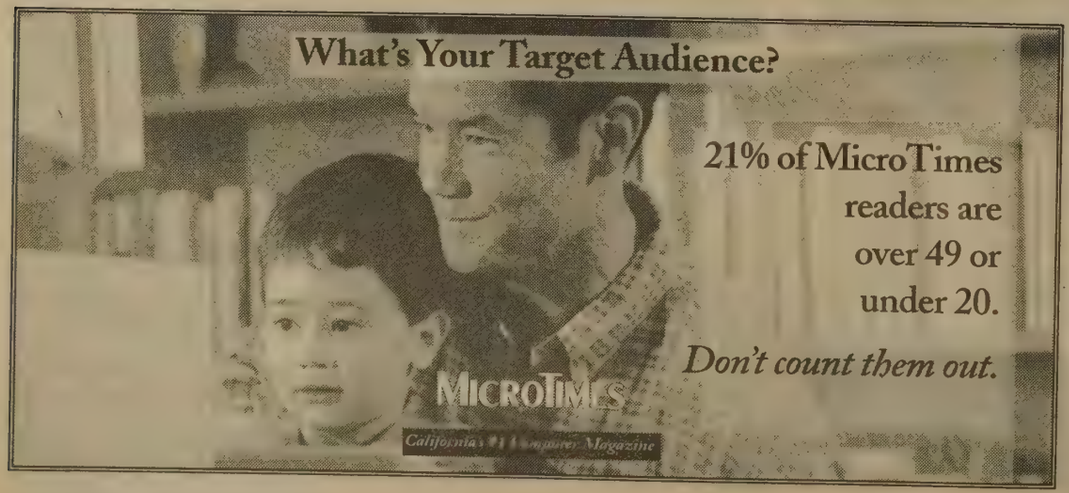

Online Guide

Web Page Listings *continued...*

Phoenix Center For Clinical Research *http://www.pccr.com* A center for pharmaceutical clinical trials and drug development. [Exp. #175.]

Pigeons *http://www.ozemail.com.au/~pigeons/index.html.html* Breeding center for racing pigeons. [Exp. #176.]

Pipe Organs And Music *http://orgel.com* Information on pipe organ building and design. History of the organ and its music. [Exp. #175.]

Pixel Photo *http://www.pixelphoto.com* A digital imaging and digital photography guide for advertisers, art directors, and production managers. [Exp. #176.]

Plastic Surgery Interactive Resource *http://users.aol.com/jdisaia* The place for honest information on cosmetic surgery. Now with an online multimedia program for download. [Exp. #175.]

RoofsNet *http://www.roofs.net* Supply the homeowner, roofer, roofing distributor, and roofing manufacturer one location to receive or distribute any information regarding the roofing industry. [Exp. #176.]

Southwest Volcano Research Centre *http://www.goodnet.com/~ej76707/* Volcano eruption forecasting and updates on latest eruptions worldwide. [Exp. #176.]

Stereography Megazine *http://www.stereography.com/gravenimages* Stereo for your eyes! Covering art and science of stereoscopic imagery, supporting LCS glasses. [Exp. #176.]

Sunshine International Penpals *http://sunshine-girls.com/* Asian women desire romance, marriage. World's largest correspondence service since 1984. Free photo brochure. [Exp. #176.]

The Waters Edge *http://www.waterdesign.com* A retreat and a resource for the creative business spirit. [Exp. #176.]

Yoga *http://www.yoga-autoconocimiento.net* A site for concentration and mediation. [Exp. #176.]

PERSONAL HOME PAGES

CARveat Emptor: Tricks of the Great American Car Deal *http://www.well.com/user/kr2* Lemon-proofing the great American car sales, lease and service deal for village and family values. Trunkloads of free info and references. [Exp. #176.]

Cool Stuff *http://www.geocities.com/SiliconValley/6555* Useful stuff for your PC, HTML links, animated gifs, Looney Tunes, and more cool stuff. [Exp. #176.]

Eric's KittyKat Korner *http://members.tripod.com/~KittyKorner* RealAudio songs for cat lovers; pics of my orphaned and saved kitty's. [Exp. #176.]

GPF Avoidance *http://home.earthlink.net/~khro nos* Century cable gripes, Carl Sagan, Hodgkin's disease, hyperlinks, and more. [Exp. #176.]

It's A Wonderful World *http://www.ifw-lmc.com/kindness.htm* For people who are interested in creating a safe and trusting world for all people. [Exp. #176.]

Mark L. Falconer Film Page *http://members.aol.com/MFalc1/home.html* Reviews of current films and videos. Occasional commentary on the industry. [Exp. #176.]

Phil Walsh Home Page *http://kspace.com/walsh* Based in Canyon Country, CA, Phil Walsh is a freelance artist that does graphics, animation design, and the fine arts. [Exp. #175.]

World Wide Pet Names Project *http://www.wellwellwell.com/petnames* Browse thousands of unique pet names. Add your own favorites. Make your pet world famous! [Exp. #176.]

GOVERNMENT/ POLITICS

Biodiversity Forum: Discuss Nature Conservation Online *http://real.geog.ucsb.edu/bioforum/home.html* Biodiversity Forum is a site for people like you to express views related to biodiversity loss and conservation. It is designed to serve public education, exchange, and opinion research objectives. [Exp. #176.]

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512K Super TX Pentium® w/Intel 200MMX
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MOTHERBOARD & CPU Upgrade
Intel 430TX, 512K, USB, W-AMD K6, MMX 200MHz
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SUPER PERFORMANCE

- Intel Triton Motherboard
- 512K Pipeline SRAM Cache USB
- 32MB/EDO RAM
- 5.2GB Fujitsu 10ms EIDE Hard Drive
- 1.44MB Floppy Drive
- 17" NI SVGA .28,
- ATI 3D/64-Bit 4MB
- 56K Int. Fax Modem w/Voice 56K
- 24X EIDE CD-ROM Drive
- Sound Blaster 64 PnP
- 160W Stereo Speakers
- PCI-EIDE Built-in Hi-Speed I/O
- Mid-Tower Case w/250W PS
- Qtronix 104-Key Win 95 Keyboard
- 3-Button Mouse w/Pad
- Windows 95

FREE 74 CD Titles

AMD K6-200..... $1589
AMD K6-233..... $1689
P-II 233 ..... $1989
P-II 266 ..... $2099

PERFORMANCE SYSTEMS

- High-Performance Motherboard w/Intel Triton III, 512K USB Pipeline Cache
- 16MB EDO RAM
- 1.2GB Hard Drive
- 1.44 Floppy Drive
- 14" NI SVGA Monitor .28
- PCI SVGA Video Card w/1MB
- 33.6 Fax Modem w/Voice
- PCI Controller with I/O
- Medium Tower Case
- Enhanced 104 Keyboard
- Mouse & Mouse Pad
- Windows 95

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Pentium®-120 ..... $869
Pentium®-133 ..... $889
Pentium®-166 ..... $929

PERFORMANCE MULTIMEDIA

- P-5 Motherboard w/512K USB Cache
- 16MB EDO RAM
- 1.7GB Hard Drive
- 24X CD-ROM Drive
- 1.44 Floppy Drive
- 15" NI SVGA Monitor .28
- PCI/64-Bit 2MB (MPEG)
- 33.6 Int. Fax Modem w/Voice
- 16-Bit Sound Card
- 60W Stereo Speakers
- PCI Controller with I/O
- Medium Tower Case
- Enhanced 104 Keyboard
- Mouse & Mouse Pad
- Windows 95

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- 60W Stereo Speakers
- PCI Controller with I/O
- Medium Tower Case
- Enhanced 104 Keyboard
- Mouse & Mouse Pad
- Windows 95

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Pentium®-133..... $1329
Pentium® 166/MMX.... $1379/1399
Pentium® 200/MMX... $1449/1489

SUPER HIGH PERFORMANCE

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- 6.4GB UDMA
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- ATI 3D 8MB PCI 64 w/TV Output
- USR 56K w/Voice
- 24X EIDE CD-ROM
- UDMA Controller Built-in Support
- Sound Blaster 64 AWE
- ATX Deluxe Case w/CPU Cooling Kit
- 500W Stereo Speakers w/Subwoofer
- Logitech Mouse 3-Button
- Keytronic Win 95
- 17" SVGA .25

FREE 74 CD Titles

P-II 300 ..... $2689

MOTHERBOARD w/CPU

Intel Triton 512K L2 PB SRAM USB
100/120/133MHz $169/179/189
150/166/200MHz 195/219/289
166/200/233 w/MMX 229/309/389
ASUS Boards ..... CALL
P-II Intel 440LX Board
P-II 233/266MHz 679/799
P-II 300 ..... CALL

MEMORY

8MB/16MB 60ns $29/49
32MB 60ns 95
DIMM 32 129
SDRAM 64 229

VIDEO CARDS

PCI 3D 64 Accelerator (MPEG)
1MB/2MB/4MB $35/45/65
ATI 3D Pro 64 Bit 4MB/8MB 95/199
Diamond Stealth 3D Pro 4MB 99
Viper Pro AGP 4MB 179
Matrox Mystique 4MB/8MB 129/219
Matrox Millennium II 4MB/8MB 199/299

CPUs

Intel
100/120/133MHz $85/95/105
150/160/200 ..... 115/139/219
MMX 166/200/233 ..... 149/229/299
AMD
K6 MMX 166/200/233 ..... $149/189/289
CYRIX & Others

NETWORK CARDS

NE-2000 ..... $29
SN 3200 PCI 32-Bit Combo 35
3COM 10/100Base-T 69
Hub & Switch Cables Please Call

HARD DRIVES

1.2/1.7GB UDMA $129/139
2.6/3.5GB UDMA 179/209
4.3/5.2 GB UDMA 259/299
6.4GB UDMA 339
SCSI DRIVES ..... CALL

CONTROLLERS

SCSI-2 PCI 2940 ..... $159
SCSI U PCI 2940 179
SCSI U/W 2940 219
Others ..... CALL

BACK-UPS

Iomega Zip 100MB $129
Jaz 1GB 289
Ditto 3.2GB 139

FAX MODEM w/Voice

Zoltix 33.6/56K $65/95
USR 33.6/56K 109/169

CD-ROM & SOUND

20X/24X CD $69/89
32X Teac CD 119
Sound 16 ESS (Yamaha) PnP 25
AWE 32/64 ..... 75/95
AWE Gold 189

DELUXE CASES

Mini-Mid $39/49
Full Tower 89 ATX ..... CALL

MONITORS

SVGA Low Radiation, Digital Controls
14"/15" $169/219
17" 419

MOUSE & KEYBOARD

Microsoft Compatible 3 Button $9
Microsoft Mouse w/System Purchase Only 29
Microsoft Mouse w/Wheel w/System Purchase 49
Logitech Mouse 2/3 Button 19/29

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24X CD-ROM Multimedia Kit
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16-Bit Sound Card PnP
60 Watts Stereo Speakers w/Adapter $129

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System Diagnostic & Checkup/Cleanup $20
Multimedia Kit Installation 20
Fax & Modem Installation 20
Motherboard Upgrade Installation 30
Video Card/Hard Drive Installation 10
Hard Drive Transfer 30
Software Installation & Setup ..... 25/Hr.
On-site Service Charge ..... 60/Hr.
Network On-site Service Charge ..... 100/Hr.

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Online Guide

Web Page Listings *continued...*

Bureau Economique en France *http://www.cotedivoire.co* Site officiel du Bureau Economique: Paris and Washington. [Exp. #174.]

Corporate Watch *http://www.corpwatch.org* As all the Fortune 500 companies jump onto the World Wide Web bandwagon, who's keeping an eye on them? Corporate Watch is! [Exp. #175.]

First Amendment Center *http://www.fac.org* Congress shall make no law respecting an establishment of religion, or prohibiting the free exercise thereof; or abridging the freedom of speech, or of the press; of the right of the people peaceably to assemble, and to petition the government for a redress of grievances. [Exp. #175.]

Health Finder *http://healthfinder.gov* Designed to provide consumers with easy access to the widest range available of online, accurate, up-to-date health information from the US government and its many partners. [Exp. #174.]

Irish Trade Board's Internet Supersite *http://www.irish-trade.ie* Providing international buyers with comprehensive access to the sourcing capabilities of Irish companies. Available in six languages. [Exp. #176.]

K9 Officer's Reference Page *http://www.neosoft.com/~jmsjr/index1.htm* A reference page for law enforcement canine officers. [Exp. #176.]

Ken's Communist Comics *http://www.geocities.com/Area51/2369/kcc.html* The only communist comics shop in California. Our prices are Marxerific and the service is Maovelous! [Exp. #174.]

Library Of Congress Information Bulletin *http://www.www.loc.gov/loc/lcib* [Exp. #174.]

Mumia Abu-Jamal Web site *http://www.mumia.org* Learn more about Mumia Abu-Jamal, read the latest updates on his case. [Exp. #176.]

Peacemaking & Crime *http://www.westga.edu/~jfuller/peace.html* Peacemaking & crime, seeks to provide information about peacemaking in the US criminal justice system and about alternatives to the war on crime perspective. Features include news items, an explanation of the perspective and links to related sites. [Exp. #176.]

Political Ecology Group *http://www.igc.org/peg* PEG is a multi-racial, volunteer-based organization working for environmental justice in the SF Bay Area. [Exp. #175.]

Secret FBI Files Web Site *http://www.crunch.com/01secret/01secret.htm* Thousands of secret FBI files, never before suspected. [Exp. #176.]

Social Development Web Site Of Pakistan *http://www.digitalin.com/devpak* Pakistan's first Web site on social sectors. [Exp. #174.]

US Consumer Information *http://www.pueblo.gsa.gov* Find the latest information from more than forty US government agencies. [Exp. #175.]

User's Guide To The Declaration Of Independence *http://www.founding.com* Mainly for educational institutions, this site has 10,000 pages of essays, tracts, sermons, and other documents from the Founding Fathers. [Exp. #176.]

ARTS

A Odisho 3D Gallery *http://www2.inow.com/~mystery/gallery* A gallery of some nice, original 3-D pictures. Not many, but will add more soon. [Exp. #176.]

American Photographer In Spain *http://www.angelfire.com/ca/fotografo* Fine B&W photography and Spanish landscapes! New format with great photos, and Spanish links too! [Exp. #176.]

Art Of All Sorts *http://www.artofallsorts.com/* Buy reproductions of the great masters online! Cezanne, Chagall, WuChen, Gauguin, Hiroshige, Kahlo, Klee, Matisse, Monet, O'Keefe, Van Gogh, and more. [Exp. #176.]

Artist Roz Dimon *http://www.users.interport.net/~rozdimon* This incredibly famous artist spins an ongoing tale. [Exp. #176.]

Cannonball Express *http://www.best.com/~canonbal* A video project-in-progress about urban firestorms, fire safety and environmental issues. [Exp. #175.]

Digital Snapshot Of The Day *http://www.kurz.net/* A photo gallery of digital photo snapshots. Take a close look at the snapshot of the day, which is updated daily by Martin Kurz. Everyday life gives us the best subjects. [Exp. #175.]

Gary Wagner Fine Art Photographer *http://www.garywagner.com* Fine art photography. [Exp. #175.]

Golden Gate Gallery *http://goldengategallery.com* Modestly priced art prints and originals by noted California artists, especially Don Irwin and Jane Gallagher. [Exp. #176.]

Native Hands Gallery *http://www.nativehands.com* The brainchild of Navajo silversmith Jennifer C. Redhorse, this new site is devoted to the history, techniques, materials, and makers of Indian silver jewelry. [Exp. #176.]

PhotoSphere Images, Ltd. *http://www.photosphere.com* PhotoSphere offers professional, royalty free stock images on CD-ROM, covering people, places, nature, backgrounds, and the economy. View our images and order collections online. [Exp. #176.]

Selected Poems, 1997 *http://members.aol.com/TerryMcCa/home.html* A page of enjoyable, edifying, and thought-provoking poetry. Updated frequently. [Exp. #175.]

Southwest Art Liquidation *http://www.fine-art.com/southwestart/Western* Native American art, bronzes, lithos, originals, sands, and more! [Exp. #176.]

Ted Alvy Cosmos Topper Home Page *http://pages.prodigy.com/FNJD74A* Art of '60s L.A. underground radio, rebop, beatniks, hipsters, hippies, zoot horn rollo. [Exp. #175.]

Wild Images By KKRImages *http://members.aol.com/denali33/cards/kkrimageshome.html* The site is about nature photography. [Exp. #176.]

ENTERTAINMENT /LEISURE

Abercrombie & Kent *http://www.abercrombiekent.com* Adventure travel. [Exp. #176.]

Across The Bay Tent And Breakfast Adventure Co. *http://www.tentandbreakfastalaska.com/* How about stunning Kachemak Bay, in South-central Alaska, surrounded by rainforest, mountains and glaciers on the Kenai Peninsula. The only way to get to us is by water taxi, air or tour boat. Fly direct. [Exp. #176.]

Actual St. Louis *http://www.actualstlouis.com* An information showcase for and about St. Louis, MO. [Exp. #176.]

Arctic Travel *http://www.arctic-travel.com* A travel guidebook that aims to become the most comprehensive guide to the Canadian Arctic is now online. [Exp. #176.]

Astrology Now! *http://onesky.com/astrology* Find detailed information about your astrological sign, compatibility with others, and of course horoscopes! [Exp. #176.]

Black Moon *http://www.black-kat.com/blackmoon* Promotes appreciation of Japanese animation and culture by showcasing current anime, art, and related exhibitions. [Exp. #176.]

Bright Spot *http://www.getawaynow.com/bahia-luminosa* Costa Rica—Bahia Luminosa beachfront resort and hotel where our forest meets the sea. [Exp. #176.]

Capt. Ted's Whooping Crane Tours *www.sirius.com/~sarabel/Crane.html* Vacation idea for the adventurous: where to go to see the whooping crane. Includes sounds and footprints plus original art. [Exp. #176.]

Carolina Corner *http://www.carolinacorner.com* Features businesses, recreation, and tourism in ten counties of Northwestern North Carolina. [Exp. #175.]

Celebrate History! *http://www.celebratehistory.com* A new, unique event for everyone who loves history—February 13-15 1998, South San Francisco, CA. [Exp. #176.]

Cheat Sheet For Travelers *http://www.oanda.com/cgi-bin/travel* A wallet-sized currency conversion table. [Exp. #176.]

CineSecrets *http://www.CineSecrets.com* Movie inside stories.The source of unofficial *Star Wars* inside information plus the making of *Highlander, Superman, Lifeforce, Krull,* and many others. [Exp. #176.]

Comedy-O-Rama *http://www.comedyorama.com* A great site filled with original, free comedy, RealAudio, comic strips, links, and more. [Exp. #176.]

Da-Zone Download Station *http://www.da-zone.com* [Exp. #175.]

Dark Skies At PlanetENZ *http://planetenz.com/darkskies* The official Web site of the Save Dark Skies Campaign. [Exp. #175.]

David Patrick Ryan's Rivendell—The Music Of Enya *http://www.brodnet.com/users/r_david/enya01.htm* Wherever beauty is to be found in this world, one can picture it quite vividly when listening to Enya's musical pieces at Rivendell. [Exp. #176.]

Detroit's Woodward Dream Cruise Juke Box *http://www.nexusit.com/woodward/index.html* Featuring a slide show and streaming music. [Exp. #176.]

DJ14K's Tapes R Us *http://www.geocities.com/SunsetStrip/Studio/4513* Wicked selection of reggae sound-system tapes and videos for sale/trade. Also, check the sounds, links, and the massive list! [Exp. #176.]

Dolphin Yacht Charters *http://www.dolphinchar.com* Cruise the islands in our sailboat yachts for your vacations in St. Vincent, Grenadines, Barbados, and other Caribbean Islands. [Exp. #176.]

DR's Sports *http://www.signatures.com* The best "in-person" sports and celebrity autographs on the Internet. [Exp. #176.]

DVD Source *http://www.dvd-source.com* Discounted DVD movies with an online catalog and searchable database. [Exp. #176.]

Earthquake City BBS *http://members.tripod.com/~eqc.itybbs/Index.htm* Earthquake City BBS, Computers By Candlelight (radio show), Chrome Oxide music collector pages, lots of links. [Exp. #176.]

Empire Cigar Company *http://www.empirecigar.com* The finest in premium cigars and cigar-related accessories. [Exp. #176.]

Film Production Advertising Television Commercial International *http://www.dragonslayer.com.au* Virtual showcase of our spots. [Exp. #176.]

Flapper Station *http://www.sns.com/~rbotti* Take a step back in time, back to the 1920's when cars had running boards and gangsters were running Gin! Links to the Music, Autos, Silent Film and Radio of the Roaring '20s. [Exp. #175.]

Fort Payne Alabama City Limits *http://www.fortpayne.com* Great pics and overview of this scenic community. [Exp. #176.]

Gold Club Casino *http://www.goldclubcasino.com/* The ultimate online gambling experience. [Exp. #176.]

The Hitmen *http://www.rootsworld.com/hitmen/* The Hitmen, a music group. [Exp. #176.]

HOF Memorabilia *http://www.hofmemorabilia.com* Specializing in authentic autographed sports memorabilia. [Exp. #176.]

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J & S Ranch *http://jsranch.org* A premier horse boarding, training, and sales facility. [Exp. #176.]

KZ Mobile Entertainment Services *http://pw2.netcom.com/~lilalynn/KARAOKEZONE.html* KJ's/DJ's, vocal acts, photographer, etc.; kar-aoke show listings and equipment distributor. [Exp. #175.]

Main Events Online *http://www.mainevents.com* Main Events is one of the largest boxing promotional firms in the world. [Exp. #176.]

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PC World, December 1997

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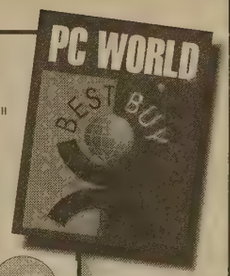

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Online Guide

Web Page Listings *continued...*

Maui Island Currents *http://www.islandcurrents.com* A feast of regularly updated information on and culture, dining, activities, and events on the paradise called Maui. [Exp. #176.]

Mirimar Cruises *http://www.mirimar.com* Mirimar Cruises of Brisbane, Australia, has a long and proud tradition of service to the people of Brisbane and to the many thousands of visitors who grace our lovely city every year. [Exp. #176.]

Monterosa Italian Paradise *http://www.monte rosa.com* About skiing and vacationing in Monterosa. [Exp. #176.]

Music Mayhem *http://www.geocities.com/Colosseum/Loge/7605/* This site is for alternative and Ska music fans! [Exp. #176.]

Never Forget Again! Lifetime Reminder Service *http://home.cwnet.com/remindme* [Exp. #176.]

Nothing But Golf *http://www.NothingButGolf.com* Golf contests, trivia, discussions, jokes, tournaments, schedules, rules, resources, handicaps, Hole-In-One registry, and more. [Exp. #176.]

NRR, Inc. *http://www.newrealm.com* Music production at its finest. [Exp. #175.]

Online Sports League Information And Communication Manager *http://www.sportsdataonline. com* A faster, easier, and more efficient way of managing your sports league. [Exp. #176.]

OnVideo *http://www.cyberpod.com/cyberpod/onvideo.htm* A complete home video guide to current and forthcoming movies released on tape. [Exp. #175.]

Orange County Info *http://www.inorangecounty.com* This site is updated daily and has Orange County specific info on entertainment, arts, news, etc. [Exp. #176.]

Orchid13 *http://www.orchid13.com/* Photography, poetry, weird and unusual, .wav files, David Bowie page. [Exp. #176.]

P&S Records *http://www.psrecords.com* Princess and Saint Records, the Internet's only full-service record company. [Exp. #176.]

PASS Hockey enterprises, Inc. *http://passhockey.com* Hockey skill development. [Exp. #176.]

Round Flat Records *http://www.roundflat.com* [Exp. #176.]

Royal Vacations, Inc. *http://royalvacations.com* [Exp. #175.]

Salt City Athletics Online *http://www.wingchun.net* Featuring Ling Wood Chuan Wing Chung Kung Fu, Balintawak Arnis, kickboxing, and boxing. [Exp. #176.]

Smartweb In Paris *http://www.smartweb.fr* Guide and virtual visit of Paris, museums, monuments, shopping, and fashion. [Exp. #175.]

SmokiesOnline *http://www.smokiesonline.com* Your Internet resource for planning a Smoky Mountain vacation. [Exp. #176.]

SongHits.com *http://www.songhits.com* Full-length hit songs in streaming RealAudio. [Exp. #176.]

Space Adventures Web *http://www.spaceadventures.com* Your space travel agency, bringing space tourism to the world! [Exp. #176.]

Spacecraft Model Kits *http://www.scikits.com* Order Spacecraft Scale Model kits online at low cost! [Exp. #176.]

***Star Wars*: Episode 1** *http://www.starwars.com/episode-i* Information about the *Star Wars* prequels. Episode I is due in May 1999. [Exp. #176.]

SurfBike: Cycling On Water *http://www.surf bike.ca* A fun, innovative, and environmentally friendly new watersport. [Exp. #176.]

Teams of the World *http://www.islandia.is/totw/* A football (soccer) club database that continues to grow. [Exp. #176.]

Telery *http://www.telery.com/public/default.htm* A place to chat, play games, and have fun with your friends! Live chat, a casino, online games, free email and homepages! [Exp. #176.]

Tom Clancy Politika Web Site *http://www.politika.power-plays.com* Learn more about Tom Clancy's latest paperback book, *Power Plays: Politika*, test your knowledge of Russian history, geography, and culture in the Politika Challenge, and chat with other Tom Clancy fans. [Exp. #176.]

The Tour-Biz *http://home1.gte.net/tstudios/e-book.html* Travel the world for free! New book, in computer format, explains how to build, sell, and manage a successful tour. [Exp. #175.]

Twinkling Star Casino *http://www.twinklingcasino.com* A complete virtual casino with slot machines, poker, and black jack tables. [Exp. #176.]

Wizard And Glass Web Site *http://www.darktowerIV.com* *Wizard and Glass* is the fourth volume in Stephen King's epic *Dark Tower* series. [Exp. #176.]

Yanahurco—Ecological Reserve *http://www.yanahurco.com.ec* A private ecological reserve for ecotourism including fishing, horseback riding, bird watching, and camping. The Galapagos of the Andes, 60 miles from Quito, Ecuador. [Exp. #175.]

Yoli Gim *http://www.yoligim.com* Yoli Gim, the first virtual gym, offers an easy way to workout from home and get fit. [Exp. #176.]

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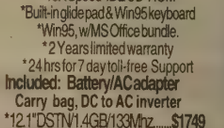

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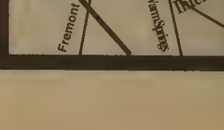

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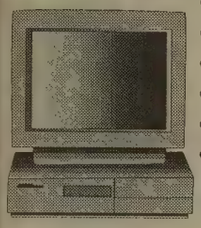

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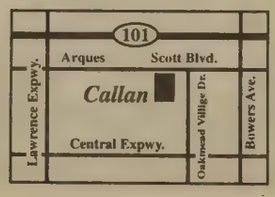

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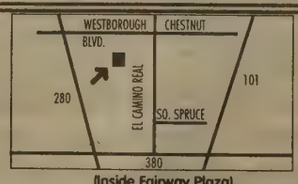

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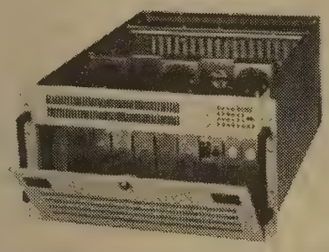

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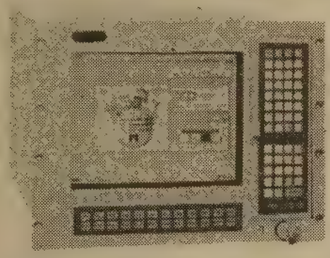

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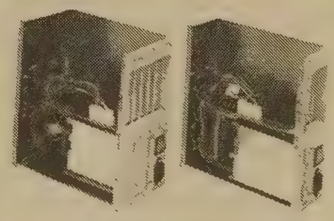

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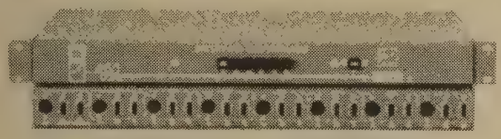

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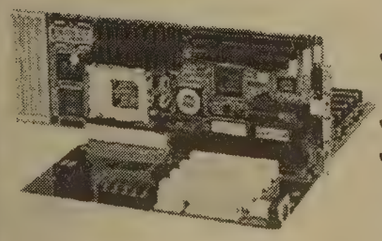

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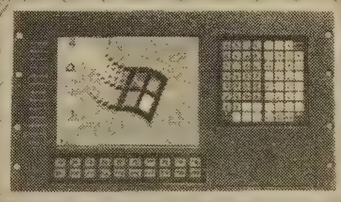

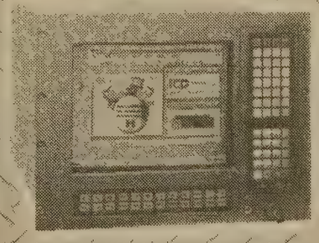

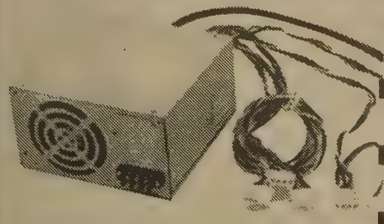

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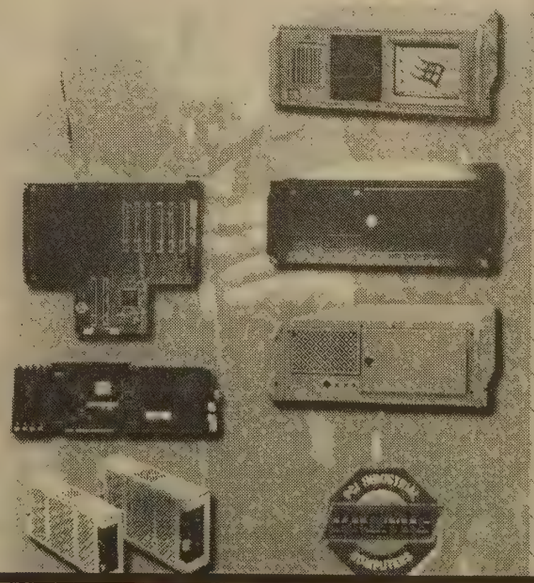

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- 32Mb Ram EDO 60ns Installed (72-pin)
- Controller 4HD & 2FD w/ 2s (16550), 1P (EPP)
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- Hard Disk 4.3Gb Ultra ATA (33MB/s)
- Cirrus Logic 5464 PCI w/ 4Mb
- 15" Sampo 511L Digital Color Monitor (1024 x 768) .28 NI
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- Asus T5 Medium Tower Case w/ 235 Watt Power Supply
- Microsoft Ergonomic PS-2 Mouse
- 24X CD-Rom Drive
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- Controller 4HD & 2FD w/ 2s (16550), 1P (EPP)
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- Hard Disk 4.3Gb Ultra ATA (33MB/s)
- STB Velocity 128 AGP 4Mb SGRAM
- 17" Sampo Digital Color Monitor (1280 x 1024) .28 NI
- Keytronic 104 Keys PS-2 Enhanced Keyboard
- ATX Mid Tower Case w/ 235 Watt P.S
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- Intel CPU Pentium II 266MHz
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Gulch GOSSIP

by Jonathan E.

Mind Grenades @ MOMA

I've made a lot of fun of ***Wired*** over the years. It's true that's generally been about as easy as shooting fish in a barrel, not to coin a phrase or anything—but I'll admit that it does some things well. The **Mind Grenades** section at the beginning of each issue is absolutely a fine example of an innovative and effective communications technique. Whatever other idiocies *Wired* has perpetrated editorially or in its business over the years, **Louis Rossetto** can feel proud of Mind Grenades. Although countless other magazines have now borrowed a bit from its byte, none that I've seen have imitated this particular *Wired* technique; in this area, *Wired* has led where others have not dared to follow, although I'm bound to also note that there are good business reasons for not following *Wired* into some of its more hubristic ventures.

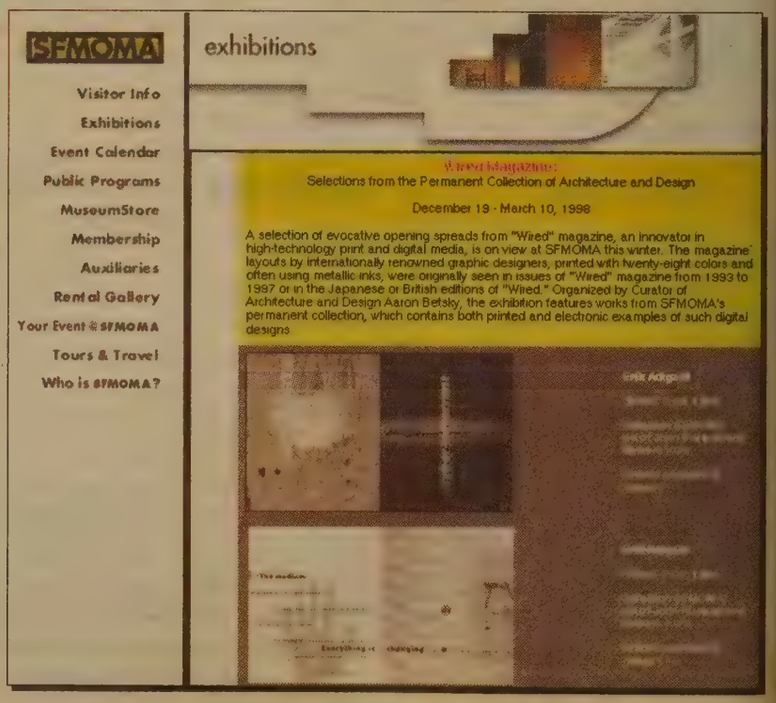
SAN FRANCISCO MUSEUM OF MODERN ART

Mind Grenades' tightly executed combination of flamboyant graphics and terse type into one holistic editorial vision makes *Wired*'s claim to be "a multimedia event on paper" more than just self-inflating hype, for once. Getting out of the newsstand and into the **San Francisco Museum of Modern Art** is a leaping change of venue usually reserved for the historically preserved. *Wired* is, in fact, becoming historically preserved, with examples of its Mind Grenades designs being kept both electronically and in print in MOMA's permanent collection.

If the din of **Macworld** is getting to you, and you fancy a nostalgic look back at the mid-nineties, just slip across Third Street and into the airy relief and elegance of MOMA for a gander at the current exhibition, ***Wired* Magazine: Selections from the Permanent Collection of Architecture and Design**, curated by **Aaron Betsky**. If Macworld has you tight within its clutches and you just can't escape, the show runs until March 10. It's only tearsheets from the magazine—the electronic forms remain in the archives—but you could always wander around one of MOMA's other exhibitions after surfeiting on *Wired*'s eye candy. Check the SFMOMA Web site at *http://www.sfmoma.org* to find out what else is going on.

Rumors that Rossetto will be outside the museum hawking yet another IPO or parading around with a sign advertising open editorial positions are nothing but idle and malicious gossip.

SFMOMA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Wired Magazine:
Selections from the Permanent Collection of Architecture and Design
December 19 - March 10, 1998
A selection of evocative opening spreads from "Wired" magazine, an innovator in high-technology print and digital media, is on view at SFMOMA this winter. The magazine layouts by internationally renowned graphic designers, printed with twenty-eight colors and often using metallic inks, were originally seen in issues of "Wired" magazine from 1993 to 1997 or in the Japanese or British editions of "Wired." Organized by Curator of Architecture and Design Aaron Betsky, the exhibition features works from SFMOMA's permanent collection, which contains both printed and electronic examples of such digital designs

Fish Ball Soup

"YOU'VE GOT A LOT OF BALLS," I SAID to **Mark Pesce**, VRML pioneer, at the reception following his appearance at the Berkeley stop of the **Virtual Worlds Beyond the Screen** lecture series. He managed to look both pleased and a little piqued at this back-handed journalistic compliment. When I asked the normally imperturbable **Randall Packer**, curator of the series, if he'd got what he expected, he squirmed a little before declaring how interesting and different Pesce's talk had been. Via email, he later added, "It was bold and experimental in its use of narrative drawing from myth and other metaphorical analogies." The man is a born diplomat!

The reason for all this equivocation was that Pesce's lecture, entitled "**When the Three Were One**," was a far cry from even the most visionary technogeek babble usually to be heard on the blue-sky lecture circuit. Pesce dug deep, very deep, into the psychic regions of human consciousness and spirituality—so deep, in fact, that several in the audience left well before the end and, judging by some of the questions afterwards, more than a few of the remaining audience were, well, left behind. Anyone coming to hear an exposition of the wonders of VRML or anything else technological would have been, if not disappointed, diverted to another plane.

Myself, I thought it was a rather densely garbled collection of cosmological and metaphysical cliches—somewhat like this sentence in fact—reflecting and illuminating the undeniable reality that this stuff is hard as hell to talk about. Make up your own minds by reading the text for yourself at *http://www.hyperreal.org/~mpesce/31.html*.

Whatever my immediate response to his words, I hasten to add that Pesce generally has more going on upstairs, and more to say that is really worth hearing, than any number of the more commercially oriented Internet hucksters currently scrabbling for mindshare and infesting our culture with their so-far untested theories. What he proposes and discusses is at least aimed at meeting fundamental human needs rather than simply sucking the bucks out of consumers' credit accounts.

I do not agree with him on several points about what it all means, particularly his emphasis on the benefits of the shape- and boundary-shifting qualities that electronic communication enables and his belief in the ubiquity of the Web (both views very typical of citizens of a certain region of the United States of America but not of the rest of the world). However, that disagreement at least springs from the fact that he is saying something interesting about more fundamental matters than simply outlining the latest schemes to turn community into money-making opportunity. To explore his views in more depth, you'll find his home page at *http://www.hyperreal.org/~mpesce/index.html*.

To be fair, he warned us at the beginning of his performance that he was going to make us work hard, "as hard as I've been working for the last six months." He wasn't kidding. I worked hard not to let out loud grunts of exasperation while he talked of seeds and snakes and shifting shapes over ambient beats spun from CD by **DJ Ronan.** However, after a few moments of stunned silence while all must have wondered how to open this oyster to find the pearl, we got straight answers to somewhat confused questions.

His concept quickly seemed to become clear: We're now all connected at many levels that are themselves all connected. This has been an evolutionary process through various spiritual disciplines—the first two sections of "When the Three Were One" dealt with the difference between pagan and Christian concepts of God. Now, the mighty silicon chip and the wondrous Web enable us to make manifest those connections on new levels, multiple levels and multiple connections more along the lines of ancient paganism than Christian linearity and singularity.

However, Pesce then seemed to express doubts about the ultimate value of the technology, declaring that as he thought about it, "my mind got more confused." I, too, am confused. I hope that my interpretation is correct but it seems to me that he's getting worried about the ultimate results of this reliance on electronic circuitry, that perhaps he's beginning to fear that it will produce a more hierarchical and structured world with more control of the consuming underlings by the corporate overlords. Perhaps he also sees that that circuity is simply redundant—and always has been—when it comes to human connections at certain levels, that the screen is actually a bottleneck constricting the flow rather than a window opening wide from one world to another.

I look forward to Mr. Pesce's next pronouncements. There's more work to be done—and not just by him.

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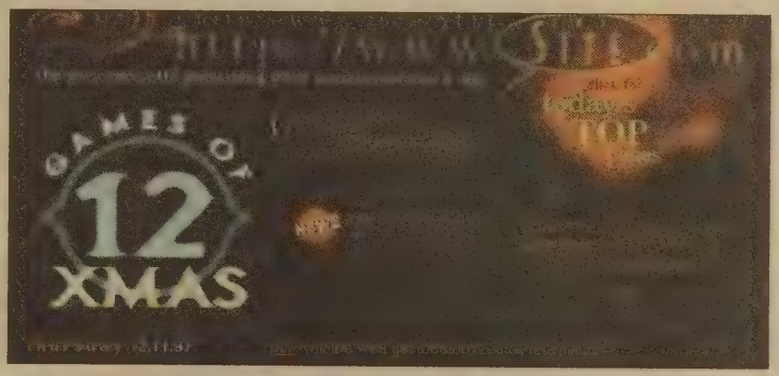


A Festival For All The Poster Children Of The Digital Revolution

SUZANNE STEFANAC HIT A CHORD THAT I HEARD ECHOED A FEW TIMES at **The 1997 New Media Invision Awards Festival** when she stated on **The Site** (*www.thesite.com*), "If this truly is the age of irony, then we at The Site could be its poster children. Only days after being informed that NBC had cancelled our nightly **MSNBC** television program, the **Invision Awards** folks notified us that our online group had won the Gold award in the Entertainment category for Best Web site."

From subsequent conversation, it appears that, post-Diana, MSNBC decided to simply become an all-news channel 'cos that's where the ratings juice is (at least when there's "news"). The magazine style of The Site

GULCH GOSSIP *continued...*

didn't fit the format and so, regardless of Invision awards and Emmys and Computer Press Association awards, it had to go.

ZDTV, producers of The Site, announced at the Awards several times that they plan to soldier on and become their own 24-7 cable channel. Plans call for a substantial amount of the programming to be live; there will, of course, be an integrated Web site backing it up. Sounds like it might be a bit of a CNET killer to me.

However, what I heard whispered again and again at the Awards was a grim determination to hang on until the market for digital media really really really arrives. While a few masterminds appear to have figured out how to bring in real bucks from Web sites or CD-ROMs, many content developers—even winners of Invision Awards!—still subsidize their creative efforts by doing contract work for corporate training, intranet sites, info kiosks, or other rather dry but safe business-oriented projects.

ZDTV expects its new channel to take a few years to break even. **Dan Ruby**, editor of ***New Media*** and usually rah!-rah! about the state of new media, even sounded a cautionary note about the market in his editorial in the special Awards issue. Freelance Web development work around town is drying up now that much of the cream has been skimmed and corporate clients expect to see concrete results from their Web site investments. We won't belabor the cut-backs at **Wired Ventures** any further. We were shocked, well and truly shocked, to hear that **CNET** asked its employees to pay for their guests at their Christmas party. Even the **big boy of Redmond** is rumored to be cutting back on digital media investment. Suffice it to say that the discredited projected backlash of '97 looks like it's arriving after all—just at the end of the year rather than the middle.

Of course, it's not all doom-and-gloom. There are also indications that this is only a temporary retrenchment while the results of what's already done are assessed. **Ralph Rogers**, principal multimedia analyst for **Dataquest**, casually let it slip at the Awards that, despite popular perception, the multimedia CD-ROM market worldwide actually increased by 25% to a little more than $2 billion in 1996, with educational CD-ROMs having an astounding 80% increase. He later explained that, even with these figures, very few publishers are actually making money because of the hits-driven nature of the business.

However, the grapevine tells me that many are gearing up for new projects in the new year. Certainly the official mood at the Awards Festival was most definitely festive. **Hal Josephson**, executive director, in fact did a fabulous job of transforming the Awards from a single show to a three-day festival with lunches, late parties, multiple showcases, the **Playland** exhibition, roundtable discussions, and almost endless schmoozing.

But there was more going on than socializing; as has been repeat-

Ask Jeeves Anything

JUST GO AHEAD! ASK ANY QUESTION YOU WANT IN PLAIN English on this Berkeley-based search engine to be found on the Web at ***www.askjeeves.com*** .

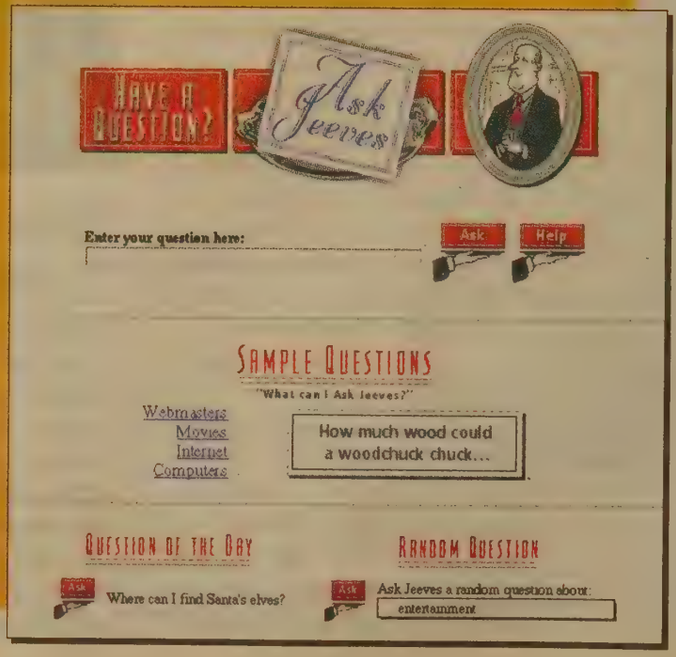
At the launch party, tea, sandwiches and cake were served—thankfully along with champagne. A journalist with another publication, to whom I'm hopefully being charitable by concealing his identity, asked, "When will I find the house of my dreams?" The possible answers included a site dedicated to **Goldilocks and the Three Bears,** along with the usual real estate sites.

He then asked, "When will I find the woman of my dreams?" explaining to me that he thought that would be easier once he had a house to keep her in. Jeeves provided a variety of interesting places to look for women including some that were dedicated to very specific, ahh, tastes that this magazine will not dignify by specifying, but which we certainly do not expect proper butlers to know about. Suffice it to say that some of these places seem to specialize in degrading acts, while by the sheer number of answers it would seem that lesbians have more difficulty finding their dream woman than do heterosexuals.

I'd been racking my brains all day in preparation for this social event of the season (or at least the night) trying to think of a question that would stump Jeeves. Alas! I was not even close. I typed in "How big is big?" Without even the slightest grimace, Jeeves calmly responded with a variety of appropriate answers including one that referenced the book that sparked (if you can call it that) the question.

Since then I've wasted endless hours researching this short piece by asking Jeeves all sorts of questions. He's good, very good. He doesn't know everything, but he'll usually come up with an easy-to-digest suggestion of places to look. As well as his own secret fount of knowledge, Jeeves also presents the results of searches using the other big engines. It's sobering to see on one screen how different the results are from one engine to another.

Besides that Jeeves has a number of other nifty features that make finding specific things on the Web a little easier than otherwise. The only thing he really flunked on was when I asked, "Who is Jonathan E.?" A question one should never ask I suppose, because he failed to recognize me—and I'm on the Web, I am, I really am. What's the lesson here? Ego is a terrible thing, although it does have its uses when testing search engines!



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SONY SDT-9000 4mm DDS3 24GB Int/Ext	1,372/1,417
SDT-9000 w/Arcserve Enterprise Int/Ext	2,329/2,432
TECMAR WangDAT 3900 DDS3 12-24 GB DAT Int	1,320
WangDAT 3900 DDS3 12-24 GB DAT Ext	1,440
TS420C-D01 Travan 4-8GB internal	400
TS420C-D12 Travan 4-8GB internal	500

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3COM Office Connect Boundary Router 3C8841A	1,244
Office Connect Remote 510 ENET,ISDN	586
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ARTISOFT InSync Modemshare 1/2/4/8Pt.	108/187/348/592
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GULCH GOSSIP *continued...*

edly noticed in the **Multimedia 101** column, the general quality of multimedia work these days is considerably higher than only a couple of years ago—and so it was at the Awards Festival in both creative and commercial projects.

The Awards show itself was a pretty typical awards show with a comedic MC, **Phil Proctor** of **Firesign Theatre**—who, I'm afraid, wasn't very funny, and raised the hackles of all I asked about his ham-fisted approach, and a variety of presenters and proud winners. It became immediately clear that, while the Bay Area might be the original home of multimedia (or digital media as seems to be the preferred expression these days), it is in no way any longer the creative center. Both winners and runners-up came from many areas of the country and good-sized swaths of the globe, particularly Australia and France.

For a list of winners and finalists from an original field of over 850, check the Web at *http://www.invisionawards.com/winners/index.html* or find the appropriate issue of *New Media*, which may yet be lingering on a newsstand near you if you're quick about it.

Perhaps the very best thing about the Festival was the International Showcase on the closing night. By this time, pretty much all the fun that could be had had been had, a lot of champagne had been drunk by at least some of those attending, and stamina was running low, but the International Showcase provided a last and most fascinating glimpse into the wider world of multimedia and the real reason we were all there.

A wide range of Web sites and CD-ROMs from just about every European country, including Finland and Slovakia, as well as from Canada, Australia, Japan, and China were quickly run through by a variety of presenters. Some were hilariously dated by local standards; some were hilariously outlandish and perhaps more advanced than what we usually see here; some were just plain different. Even though it was a whirlwind tour, 30 titles in about 80 minutes, it was a great opportunity to see what the rest of the world is up to.

Most of the developers have Web sites you could check to see what they're up to (see Resources section at right). To save you from laboriously keying them in, may I suggest linking to them from our site at *http://www.microtimes.com/174/gossip.html* where we've already done the boring bits for you. Congratulations to **Jill Melancon**, chair of **MDG.org's International Committee** and her co-chair, **Nicole Kidd**, for organizing this part of the Festival.

The strangest moment of the Festival undoubtedly came at the **Artists Lunch** at **Lulu's** where fabulous food was served. That wasn't what was strange. It was the extremely long-winded speech by **San Francisco Supervisor Leslie A. Katz**, who first proceeded to piss the assembled artists off by going on and on about how San Francisco was the center of the universe for multimedia (remember that most of these people were from other places and are all quite accomplished in the field). She then compounded the local arrogance by explaining to these high achievers, in excruciating detail, just what multimedia is! Luckily for her this audience by-and-large can't vote against her. It was one of those moments when one wonders just what it is that politicians use for a brain. ■

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RESOURCES:

Germany

CD-ROM: *Venetian Deer*
Systhema Verlag GmbH, Munich
URL: *http://www.systhema.de/veteranen*

CD-ROM: *LoveLine—Eine multimediale Aufklaerung*
Commissioned by the German Office for Sexual Health & Family Planning
URL: *http://www.fox-lightware.de*

CD-ROM: *ALdiDente—Besser Schlemmen, clever kalkulieren*
Systhema Verlag GmbH
URL: *http://www.systhema.de*

Austria

CD-ROM: *Vienna—Extraordinarily ordinary*
Factory Multimedia Production in cooperation with the Austrian Broadcasting Corporation ORF.
URL: *http://www.factory.co.at*

Sweden

URL: *http://www.electrolux.se*
Spray Network, Stockholm
URL: *http://www.spray.se*

Italy

VHS Video: Character Animation
Stream SPA, Digital Production Studio
URL: *http://www.streamusa.com*

Slovakia

CD-ROM: *Our Land*
Xcontrol Plus
URL: *http://www.xcontrol.sk*

Belgium

VHS Video: On-tour-interactive VR—New Phillips Shaver
Flagship/Trix, Zaventem
URL: *http://www.ddeg.be/trix/trix_awards.html*

UK

URL: *http://www.mini.co.uk*
URL: *http://www.ni-tourism.com*
Creative Online Media Ltd., Belfast, Northern Ireland

Australia

CD-ROM/Web site: *Geekgirl—The World's First Cyberfeminist*
Hyperzine
URL: *http://www.geekgirl.com.au*

Canada

CD-ROM: *Living in 3-D*
Animatics Multimedia Corp., Ontario
URL: *http://www.domaniinteractive.com*

CD-ROM: *The Digital Frog*
Digital Frog International, Puslinch, Ontario
URL: *http://www.digitalfrog.com*

CD-ROM: *Healthclick*
Oberon Interactive Inc., Toronto, Ontario
URL: *http://www.oberon.com*

Japan

CD-ROM: *Multimedia Kabuki*
ASCII Corporation, Tokyo
URL: *http://www.ascii.co.jp*

CD-ROM: *Kamishibai, Digital Street Theater*
Space Rom Co. Ltd., Tokyo
URL: *http://www1.sphere.ne.jp/spacerom*

CD-ROM: *Atmos Tetsujin Re-Mix*
Synergy Inc., Tokyo
URL: *http://www.synergy-j.co.jp*

Photo CD-ROM: *Shukuhran*
Space Rom Co. Ltd., Tokyo
URL: *http://www1.sphere.ne.jp/spacerom*

Note that several developers showcased do not have Web sites.

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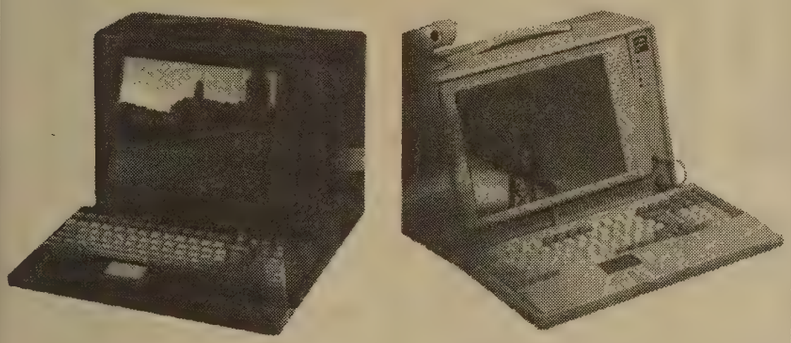

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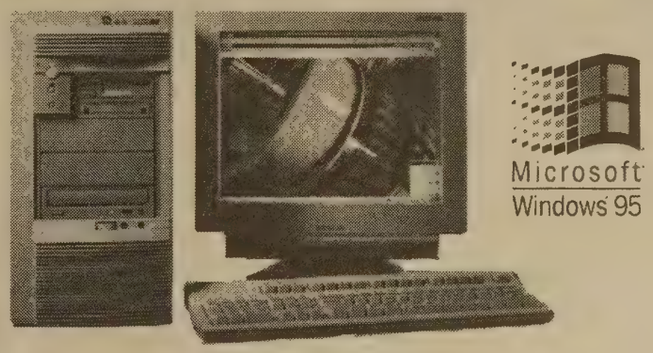

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It's not all brute physical strength and endurance, either. You'll have to keep your eyes open at all times, frequently for tiny and obscure details, while constantly calculating just what it is you're supposed to do to get beyond the latest frustrating obstacle that has appeared before you—obstacles that usually require you to go back to some place you've already been to twist some knob, shift some lever, or push a button. So you'd better also have some patience along with a bit of mechanical aptitude and some mental agility.

Is it all worthwhile? As the hours melt into the night, you should pause to seriously wonder just what it is you're doing and why. After all, *Riven* is only an imaginary world, one made up by other humans, one of thousands available to us via books, other computer games, television, movies, even plain audio-only CDs and radio. But most of those media will keep you entertained for an hour or two, maybe a good book will last for a couple of weeks if you put it down for real life. *Riven*, however, looks set to repeat *Myst's* addictive qualities. It's certainly selling at a faster rate than *Myst* did in its early days, with 100,000 copies sold in its first weekend and about 300,000 sold even before the great post-Thanksgiving Christmas sales splurge.

Without doubt, *Riven* looks absolutely magnificent. Just as *Myst* raised the bar for the

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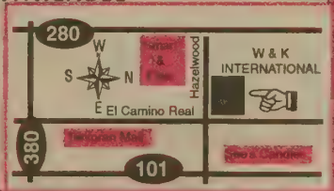


RIVEN! *continued...*

appearance of computer games, so does *Riven*. The textures are light years beyond the tiled superficial sheen or blocky generated polygons seen in most computer games; they're quite utterly gorgeous, the very highest-quality eye candy, and for good reason. They have a life, a deep sense of rootedness in some sort of ultimate reality. That's because they are indeed rooted in an ultimate reality—originating from various sources in the real world, primarily from photos of rocks, rusted metal, and tree bark shot in the environs of Santa Fe. They're not tiled much either, heightening the effect of earthy natural roughness. The treatment of water is also remarkable. It flows, shifts and shimmers; you can see through it to the creatures, rocks or other objects underneath, but their outlines blur and reappear as the water moves.

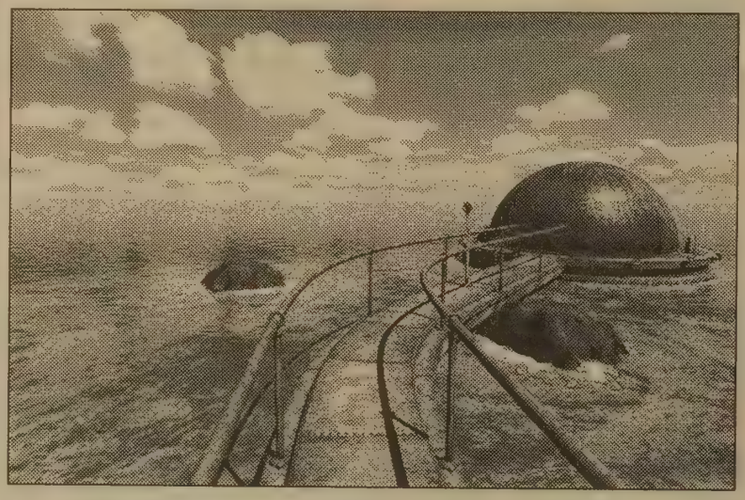
The attention to detail throughout *Riven* is remarkable. When a drawbridge drops into place, its planks quiver from the impact; a rotating wall doesn't just stop, it shudders to a halt. However, the overall effect is not just photorealistic; it's more, it's better, lending at once an air of credibility and a sense of the fantastic that becomes *Riven's* milieu, an atmosphere of deep and magical secrets that nonetheless are based on the life-like physical properties of objects.

Those physical properties mostly coincide with what we expect from similiar objects in our world—but not entirely. Water in *Riven* has some very interesting differences from what we're used to, although it can be boiled to make steam and provide power just as was once common here. While there are also things we're not used to and that don't seem perhaps quite right—for example, I can never believe that all those tunnels and passageways fit inside those lumps of rock—*Riven* easily establishes its existence as a world to be explored. We'll discuss whatever else it might be, but, on a very basic level, it just is—a world awaiting you, a world that should intrigue you if you have any curiosity at all.

THE SECRETS OF RIVEN REVEALED

Like this world for most people, *Riven* makes you work, really work, at getting anywhere with it. The puzzle-solving is intricate and ingenious. Even with *Riven's* multiple pathways, you have to find your way through a daunting array of head-scratchers before you get to the real action—and, as near as I can tell, you have to have passed through nearly every one of those multiple pathways before you can complete your task. Particularly impressive is the way the style and elements of the puzzles fit snugly within the overall context of *Riven* and its events, whenever they may have actually occurred.

But even as I was exploring *Riven*, admiring its scenery, considering all the ramifications of its plot and the maze of options thrown up by its convoluted topography, I was hungry for something else. It was that question of when things occurred.



Without doubt, *Riven* looks absolutely magnificent.

The graphics are quite utterly gorgeous, the very highest quality eye candy, and for good reason. They have a life, a deep sense of rootedness in some sort of ultimate reality.

I'd better be the first to admit that I'm not in *Riven's* primary audience, because any reader would be justified in pointing out that my sympathies are not entirely aligned with those of the typical Rivenite. It really comes down to how one wishes to spend one's time. For the most part, traditional storytelling media, in theory at least, take you on a magic carpet ride of excited narration or fantastical abstraction with minimal effort on your part. In *Riven*, you don't get taken anywhere without plenty of mouse action coupled with pretty intense cognitive processing.

Surely that cognitive processing is a big part of *Riven's* appeal for its audience. However, the activity required to get anywhere within the story disguises the fact that the story itself is pretty slim.

Oh, sure, the grand scheme of the universe of *Myst* and *Riven* is not too shabby, perhaps even on a par with such imagined universes as Tolkien's *Lord Of The Rings* or Lucas' *Star Wars*. Obviously, the elements of father-son conflict, the father's imprisonment of his daughter-in-law, the use and abuse of technology, and the quest to find the means to save the world resonate on the traditional mythological level. The piled-up details supporting each of these imagined universes, the history, the culture, the physical and biological attributes, are comparable in their richness.

However, not much actually *happens* in *Riven* as you experience it—characters do not develop before your eyes; events do not rush by; the plot does not turn on a dime, except, perhaps, if you have failed to complete a task or solve a puzzle, at the very end. Even then, it's not so much that the plot turns as that events are just different. In short, both *Lord Of The Rings* and *Star Wars* provide a much more visceral, exciting and emotionally transporting experience, while you pretty much have to plod through *Riven*, irresistible as that plod may be.

This is not to take away from *Riven* itself, so much as to point out a difficulty with the whole concept of computer-based interactive storytelling. Other interactive stories tend to rely on multiple branching points where the user or player makes a decision about what his or her character does. Perhaps the actions of other characters might change, depending on the programming behind the machine or on the decisions of other players. The story actually unfolds in segments before the player's eyes, with the outcome of the plot becoming different as decision points are reached.

One catch with this approach is that this produces neither very good game play or exciting storytelling. The player becomes a viewer intermittently making decisions, rather than a player intensely and continually involved in the action. These breaks in the action also make for a prob-

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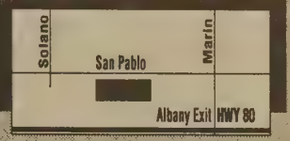

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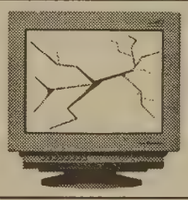

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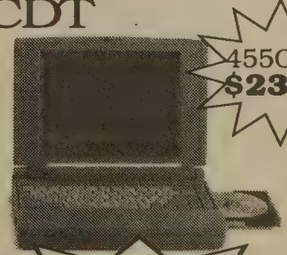

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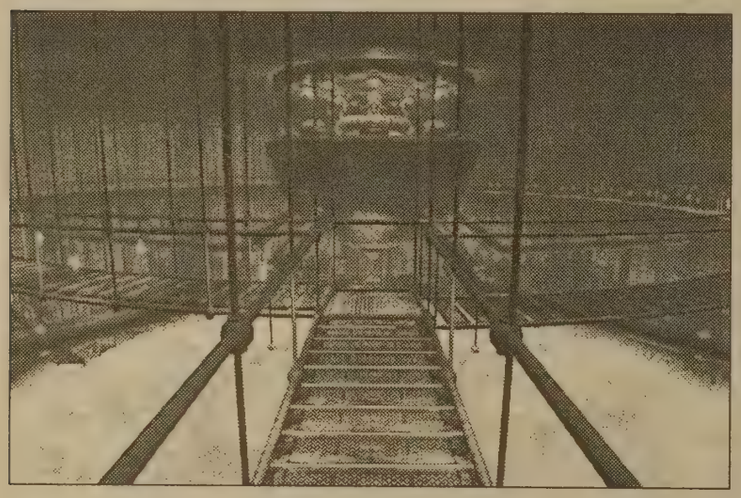
RIVEN! *continued...*

lem in sustaining the suspension of disbelief so necessary to keeping the audience in the flow of events—the essential practice of effective storytelling in traditional media (without commercial breaks!).

Another difficulty with branching-point interactive storytelling is that characters tend to be inconsistent (because they're directed by events rather than directing events) and such things as dialog become extremely stilted. These are vastly difficult story-construction problems that must be addressed even before we consider the technical difficulties of writing code and the practical limitations of today's processors. Traditional action computer games adapt to today's processor speeds by basically dispensing with character completely, or relying entirely on the player's character in his or her approach to the game play—but then they aren't really trying to tell character-based stories anyway.



Riven attempts to bridge this gap between processor and plot by taking place at a sort of mid-point, where basically everything has happened before you get to it; the characters have done their various things, but you don't get to see them do them. Rather than seeing what's happened, you must figure out how to get past the obstacles that those events have placed in your path.

Ninety percent of the story is already laid out; all you have to do is unlock a series of puzzles to get to the endgame where things actually happen. The problem with this is, of course, that just as with any shoot-'em-up or racing game, there still aren't any traditional story elements of character development and plot. The story remains pretty slim, although, within *Riven*, when you read the various journals you might find, it becomes fleshed out with at least some technical detail.

When you get to the end of *Riven*, characters do appear and the style of play becomes basically a simple branching plot. The traditional problems rapidly become apparent. You, the player, say nothing (how could you?) while the *Riven* characters make long speeches, present you with an option or two, and then disappear off stage. By now, there's little character left to be developed; you're basically just getting a first-hand glimpse of what you've already read about in a journal or seen in some tableau. In some ways, moving, speaking human figures become the ultimate eye candy in this world.

Uncovering and understanding what has already happened is obviously appealing to certain personality types, particularly those who wallow in such mythopoeic worlds. Luckily, for the Riveners of Cyan, that set appears to overlap the set of people that like solving puzzles. And that is actually where *Riven's* success and solution to the problem lies.

For the most part, traditional storytelling media take you on a magic carpet ride of excited narration or fantastical abstraction with minimal effort on your part. In *Riven*, you don't get taken anywhere without plenty of mouse action coupled with pretty intense cognitive processing.

Riven is neither a story, not that it really claims to be, nor a game, as it is often categorized. Rather, as the Miller brothers have stated all along, it's a world for you to explore—albeit one with a tale, slim as it may be, attached along with interactivity in the best place of all, between your ears, the place where all good media provoke interactivity.

RIVEN IN THE WORLD

The sound of *Riven* is a key ingredient in its credibility as a media world, new or otherwise. Just as with film and television, the music is both completely unobtrusive and also quite essential for atmosphere. Likewise, themes and motifs are used repeatedly in the same places but, depending on the stage of the game, they may be more urgent or ambient. Besides music, there's an enormous array of sound effects for the various machines, animals, and different environments. It fully lives up to the high standards of the visuals. As with *Myst*, sound also plays a role in some of the puzzles.

Generally, *Riven* is built on much the same model as *Myst*. It's an extension, an elaboration of that world. The favored concept at Cyan is that *Myst* is to *Riven* as *The Hobbit* is to *The Lord Of The Rings*. That seems accurate enough, although I think it also means that there's not such an element of surprise or novelty as some might like. Certainly, when you begin *Riven* you're not nearly as mystified (sorry) as at the beginning of *Myst*. Things like the interface and the whole thrust of what you're supposed to be doing can be taken for granted.

One fine thing about *Riven* is that it encourages activity that is not destructive in nature. I would strongly discourage a child of mine from spending time with *Quake* but, not only couldn't I object to *Riven*, but I would be pleased to see the child's problem-solving abilities being exercised.

Riven is not set up to be a multiplayer game; in fact, it's basically a very solitary experience, but more than one cooperative person at a screen seems to make some sense. Beyond that familial or friendly prospect, *Riven* also has a substantial Web presence, some of which might be considered community-oriented. The official site at *http://www1.riven.com/home.html* offers a lot of public-relations-style information, including some pages on technical details of the making of *Riven*, along with some marketing hoopla.

A good place to start a wider exploration of *Riven* resources is *http://www.gfcurrie.com/mystpage.html* , which has links to loads of other sites plus plenty of its own Rivenalia.

Finally, be warned that all that eye candy and game play comes at a price. *Riven* comes

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QuickTime 3.0

The Multiple Media Layers

An innovative software architecture can sometimes be the golden spike that advances a new digital era. Just as in the '80s, Adobe's PostScript combined with Apple's Macintosh-driven LaserWriter printer supported desktop publishing, Apple's QuickTime has served as the programming linchpin for cross-platform multimedia applications.

TV Technology magazine cites 1991 as "the time frame when Apple announced QuickTime—thus beginning the desktop video revolution." *NewMedia* magazine says that today "over 50% of all Web video is QuickTime."

From the beginning, QuickTime has made it possible to create, integrate, and publish all types of digital media, and for software applications to work with a wide variety of file formats and encodings in a smooth and consistent way. With its built-in synchronization, QuickTime makes it easy to synchronize sound, video, music, and other data tracks to a common time base.

Multimedia today means many more media forms and formats than it did in 1991, whether you publish to video tape, CD-ROM, or the Internet. QuickTime standardizes access to software-based and hardware-accelerated effects features within an open, scaleable, and extensible architecture.

MULTIMEDIA ON THE QT

The beta of the new QuickTime 3.0 was just recently made available, and the final version was due by year's end.

The QuickTime 3.0 architecture is composed of three distinct elements: the QuickTime Movie file format, the QuickTime Media Abstraction Layer, and a rich set of built-in QuickTime media services. This includes video, sound, graphics, animation, text, music/MIDI, MPEG, sprite, 3-D and VR.

QuickTime Movie is a powerful container format that makes it possible to store not only individual media assets, such as video frames or audio samples, but also a complete description of the overall media composition. The QuickTime Media Abstraction specifies how software tools and applications can access the set of media support services built into QuickTime, and specifies how hardware can accelerate performance-critical portions of the QuickTime system At the same time it outlines the means by which component software developers can extend and enhance the media services accessible through QuickTime.

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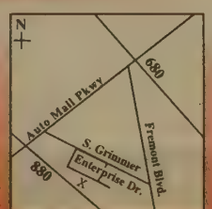

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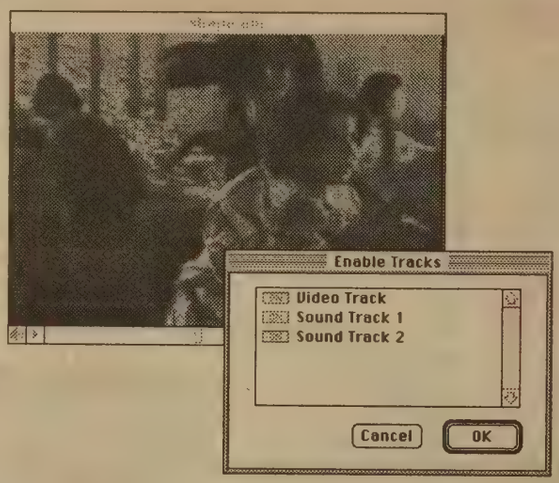
CROSS-PLATFORM: QUICKTIME DOES WINDOWS, INTERNET AND MORE

In the spirit of today's new alliances, the full range of QuickTime 3.0 media creation, editing, and publishing is now available on the Windows 95 and Windows NT platforms, in addition to MacOS.

Mitchell Weinstock, senior QuickTime product manager, says: "The way the features are implemented will probably surprise some people on the Windows side, because they've never seen all these editing and filtering and effects capabilities in an application-support protocol like this. If you were to open up a QuickTime movie or even an AVI file, and then you used the export command from the QuickTime menu, now you'll be able to recompress whatever it was you opened into a variety of different codecs that weren't there before. You will be able to convert them to still pictures, or TV, or put them into a camcorder. You'll see the ability to do filtering and change color spaces. None of that was available for Windows before."



Besides the strong cross-platform capabilities achieved by QT 3.0, the other major area of advancement is its Internet capabilities—Web connectivity has been trickled down throughout the architecture.

"QuickTime 3.0 and the new QuickTime Plug-in 2.0 together give you the right data rate to play through your machine without any user intervention," Weinstock says. "Imbed a single reference movie on your page, and it goes and finds one of the right resolutions based on the local client. So if I go to a page and I have a 28.8 modem, I will get an 80x60-pixels movie playing at 4 frames per second with no intervention on my part. But if I'm on a LAN, I will get 320x240 pixels playing at 15 frames per second with high-quality audio. QuickTime 3.0 works with any HTTP server, so it will go through firewalls."

The text track, which had been given more adaptability in QT 2.5, is now Internet-empowered. "Because we can now imbed URLs in the text track, that can take you directly to a Web site for something like a larger text document, a graphic or a sound file," Weinstock explains. Further, "It provides all the components for creating automated 'slide tape'-type presentations that can be easily transmitted over the Internet. QT 3.0 is also ideal for creating videomail messages."

You may have heard of "fast track" global economic policies, but the new QuickTime has a fast-start on the Web. "Since QuickTime 2.5, we've made it possible for people to save their files in a fast start format." QuickTime 3.0 is now smart enough to cache a few frames of the movie ahead of the streaming data-rate and then gives you immediate playback so you don't have to download it to see what it is.

As Weinstock explains, "Most of the developers now are creating QuickTime movies as a fast start movie so it automatically starts playing when you come to the page. This is codec-independent, so as we have low data rate codecs coming into QuickTime, both for audio and video, the ability to raise the size of the video or lower the data rate to support things as low as 28.8 modems becomes much easier."

A good place to see this in action and try it out for yourself is at the CNN Interactive site *(http://cnn.com/)*.

QuickTime is one of Apple's technologies that is under constant R&D. If you go to Macworld, you can expect to hear about even more tweaks and enhancements for QT 3.0 to be announced by QuickTime Architect Peter Hoddie.

With its built-in synchronization, QuickTime makes it easy to synchronize sound, video, music, and other data tracks to a common time base.

BOOKS FOR THE MULTIMEDIA PRO

It probably didn't take you long to get used to OS 8 and to appreciate the new improvements, but are you getting everything out of it that you can?

Lon Poole's *Mac OS 8 Bible* (IDG, 871 pp, $34.99) has everything you would need to know about this latest version of the Macintosh operating system. But more than 800 pages for what is still the most easy-to-use graphical user interface (GUI)?

Poole has revealed every aspect of the OS, so that you can wring out of it the best productivity, personalize it and customize it to the greatest degree, and manage the various needs of a workgroup. This Bible will help to part the Red Seas of conflicts and incompatibilities for deep troubleshooting. You'll find all the answers to installing and upgrading, Internet and networking tweaks, the best utilities, AppleScript, System 7 legacy issues and everything else you'll need to know while waiting for Rhapsody.

But if all you really need is a more basic and portable guide to the GUI, or something to pass around to your co-workers to help them get up to OS 8-warp speed, then this slimmer tome will get right to the point. *Mac OS 8:*

continued on page 224

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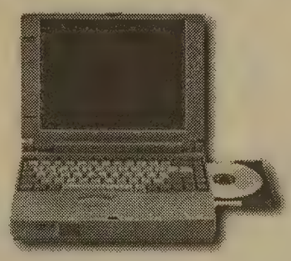

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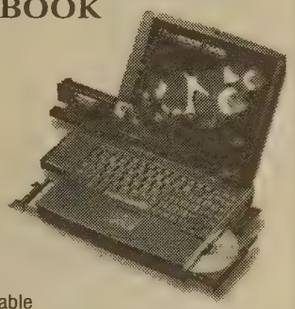

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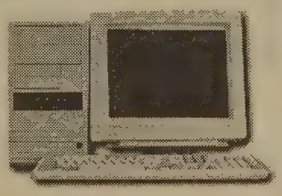

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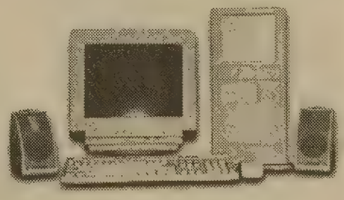

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January 4 Livermore Amateur Radio Klub (LARK) Swap Meet. Las Positas College, Livermore. LARK. Contact: (510)783-2803, or (510)447-3857 (eves.).

January 4 MarketPro Computer Shows & Sales. Civic Auditorium, Stockton. MarketPro. Contact: 1-800-708-7555, or URL: *http://marketpro.com* .

January 6 Free Seminar: CNE/MCSE Certification–Networking For Your Future. San Jose. LANOP. Contact: (408)441-9902.

January 10 Robert Austin Computer Show. San Francisco. Robert Austin Corp. Contact: 1-800-243-7041 or URL: *http://www.robertaustin.com* .

January 11 MarketPro Computer Shows & Sales. Sonoma County Fairgrounds, Santa Rosa. MarketPro. Contact: 1-800-708-7555, or URL: *http://marketpro.com* .

January 13–16 The 1998 RSA Data Security Conference. San Francisco. Contact: 1-800-340-3010, *info@lke.com* , or URL: URL: *http://www.rsa.com* .

January 15 BAVC "Above the Line" Fellowship Deadline. San Francisco. Contact: (415)861-3282, *bavc@bavc.org* , or URL: *http://www.bavc.org* .

January 17 Robert Austin Computer Show. Oakland. Robert Austin Corp. Contact: 1-800-243-7041 or URL: *http://www.robertaustin.com* .

January 17–18 MarketPro Computer Shows & Sales. Solano County Fairgrounds, Vallejo. MarketPro. Contact: 1-800-708-7555, or URL: *http://marketpro.com* .

January 17–18 MarketPro Computer Shows & Sales. Cal Expo, Sacramento. MarketPro. Contact: 1-800-708-7555, or URL: *http://marketpro.com* .

January 20–22 Display Works '98. San Jose. Contact: (212)620-3380.

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February 9–13 Software Development '98. San Francisco. Miller Freeman. Contact: (781)821-6722, or URL: *http://www.sd98.com* .

February 14 Robert Austin Computer Show. San Francisco. Robert Austin Corp. Contact: 1-800-243-7041 or URL: *http://www.robertaustin.com* .

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Recognized by the industry as the largest and most important computer security event of the year, the RSA Conference will feature special keynote addresses, expert panels, and general discussions of the current issues involving data security/cryptography. Among the many featured speakers and panelists are Jim Bidzos, president of RSA Data Security, Inc.; Dr. Ron Rivest of MIT; Dr. Whitfield Diffie of Sun Microsystems; and Dr. Burt Kaliski of RSA Laboratories. The Conference will also feature a 30,000 square-foot exhibit of hundreds of the latest crypto-enabled products, as well as a wide variety of tutorials, seminars, and workshops. These educational opportunities will be split into a selection of different specialties catering to analysts, cryptographers, developers, products, and standards. For more information, contact 1-800-340-3010, *info@lke.com* , or URL: *http://www.rsa.com* .

JANUARY 15

The Bay Area Video Coalition's "Above The Line" Fellowship (Deadline)

The Bay Area Video Coalition (BAVC) has announced a unique media training program designed for women and minorities, funded by the Nathan Cummings Foundation. BAVC's new program, "Above the Line," offers women and minority candidates six months of comprehensive instruction on all aspects of video and Web site production at no cost to its participants and will be taught by media professionals that are currently working in their field. Applications for "Above the Line" Fellowships are now available at BAVC, and are due January 15, 1998. Participants will be notified by February 1, 1998. The program will run from March 1 to August 31, 1998. For more information, contact BAVC at (415)861-3282, *bavc@bavc.org* , and URL: *http://www.bavc.org* .

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Calendar Of Events *continued...*

February 14–15 MarketPro Computer Shows & Sales. Cal Expo, Sacramento. MarketPro. Contact: 1-800-708-7555, or URL: *http://marketpro.com* .

February 18–20 Mobile & PDA Expo. San Francisco. PDA Inc. Contact: (415)252-8008, *info@wmsltd.com* , or URL: *http://www.pda-expo.com* .

February 21 MarketPro Computer Shows & Sales. Solano County Fairgrounds, Vallejo. MarketPro. Contact: 1-800-708-7555, or URL: *http://marketpro.com* .

February 28 MarketPro Computer Shows & Sales. Sonoma County Fairgrounds, Santa Rosa. MarketPro. Contact: 1-800-708-7555, or URL: *http://marketpro.com* .

February 28 Robert Austin Computer Show. Oakland. Robert Austin Corp. Contact: 1-800-243-7041 or URL: *http://www.robertaustin.com* .

March

March 1 Livermore Amateur Radio Klub (LARK) Swap Meet. Las Positas College, Livermore. LARK. Contact: (510)783-2803, or (510)447-3857 (eves.).

March 3–5 Computer Telephony Conference and Exposition '98. Los Angeles. Contact: (215)355-2886, or URL: *http://www.ctexpo.com* .

March 7 Robert Austin Computer Show. San Francisco. Robert Austin Corp. Contact: 1-800-243-7041 or URL: *http://www.robertaustin.com* .

March 21 Robert Austin Computer Show. Oakland. Robert Austin Corp. Contact: 1-800-243-7041 or URL: *http://www.robertaustin.com* .

March 28 Robert Austin Computer Show. San Francisco. Robert Austin Corp. Contact: 1-800-243-7041 or URL: *http://www.robertaustin.com* .

March 29–April 2 INFOCOM '98. San Francisco. Contact: (908)949-2761, *ramesh@bell-labs.com* , or URL: *http://www.comsoc.org/infocom/98* .

Classes, Seminars, Workshops

January

January 5–30 Kurzweil, Dragon, and IBM Speech-Recognition Training. San Mateo. Zephyr Training and Evaluation Co. (ZTEC). Contact: (415)655-2405, or URL: *http://members.aol.com/zephyrbus/web/* .

January 5–8 AutoCAD R14 Fundamentals Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838, *Teach ACAD@aol.com* , or URL: *http://www.copperconn.com* .

January 6–13 Publish The Net 8: Serving the Web. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

January 7 Certified New-to-Computer User Course for Speech Recognition. San Mateo. Zephyr Training and Evaluation Co. (ZTEC). Contact: (415)655-2405, or URL: *http://members.aol.com/zephyrbus/web/* .

January 7 Kurzweil, Dragon, and IBM Speech-Recognition Free Demonstrations. San Mateo. Zephyr Training and Evaluation Co. (ZTEC). Contact: (415)655-2405, or URL: *http://members.aol.com/zephyrbus/web/* .

January 8 Advanced Web Page Design Class. San Francisco. Computer Arts Institute. Contact: (415)546-5242, *cai@sirius.com* , or URL: *http://www.sirius.com/~cai* .

January 8 Publish The Net 1. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

January 8–22 Windows. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

January 9–30 Computer Media Fundmentals. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

January 11 Publish The Net 2: WYSIWYGs. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

January 11–25 QuarkXPress 1. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

January 11–February 1 Color Pre-Press. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

January 12–15 AutoCAD R14 Advanced 2D Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838, *Teach ACAD@aol.com* , or URL: *http://www.copperconn.com* .

January 12–February 2 QuickTime 1: Working With Digital Video and Premiere. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

January 12–February 9 Managing Your Mac. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

January 13–27 Electric Image 3: Special Effects. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

January 13–February 10 Illustrator. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

January 13–March 24 Java Programming Using Microsoft AFC. Fremont. UC Berkeley Extension. Contact: (510)642-4111.

January 10–17 Publish The Net 7: Preparing Time-Varying Media for the WWW. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

January 14 Kurzweil, Dragon, and IBM Speech-Recognition Free Demonstrations. San Mateo. Zephyr Training and Evaluation Co. (ZTEC). Contact: (415)655-2405, or URL: *http://members.aol.com/zephyrbus/web/* .

January 14–28 Publish The Net 3: Introduction to HTML. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

January 14–28 Publish The Net 4: More HTML. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

January 14–February 18 Director. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

January 15 Advanced Web Page Design Class. San Francisco. Computer Arts Institute. Contact: (415)546-5242, *cai@sirius.com* , or URL: *http://www.sirius.com/~cai* .

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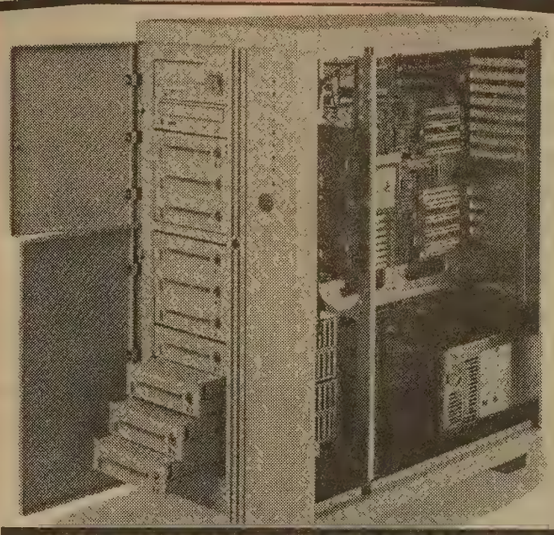

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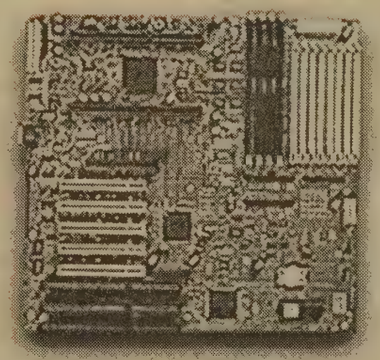

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Resources

Calendar Of Events *continued...*

January 15 Detailer. San Francisco. Center for Elect Contact: (415)512-9300, *info@cea.edu* , or UR *www.cea.edu/* .

January 15–February 26 Elements of Interactive Media D Francisco. Center for Electronic Art. Contact: (415)512- *@cea.edu* , or URL: *http://www.cea.edu/* .

January 15–February 5 Photoshop 1. San Francisco. C Electronic Art. Contact: (415)512-9300, *info@cea.edu* *http://www.cea.edu/* .

January 17–February 21 Animation Production Works Francisco. Center for Electronic Art. Contact: (415)5 *info@cea.edu* , or URL: *http://www.cea.edu/* .

January 18 JavaScript. San Francisco. Center for Electi Contact: (415)512-9300, *info@cea.edu* , or URL *www.cea.edu/* .

January 19 Careers In Computer Animation. San Fr Center for Electronic Art. Contact: (415)512-9300, *info@* or URL: *http://www.cea.edu/* .

January 20–February 3 Macintosh Basics. San Francisco. C Electronic Art. Contact: (415)512-9300, *info@cea.edu* , *http://www.cea.edu/* .

January 21 Kurzweil, Dragon, and IBM Speech-Recognit Demonstrations. San Mateo. Zephyr Training and Evalua (ZTEC). Contact: (415)655-2405, or URL: *http://meml com/zephyrbus/web/* .

January 21–February 18 3D Studio Max 1. San Francisco. C Electronic Art. Contact: (415)512-9300, *info@cea.edu* , *http://www.cea.edu/* .

January 22 Advanced Web Page Design Class. San Fra Computer Arts Institute. Contact: (415)546-5242, *cai@sirius.* URL: *http://www.sirius.com/~cai* .

January 22 Free Seminar: CNE/MCSE Certification–Networ Your Future. San Jose. LANOP. Contact: (408)441-9902.

January 24 Enter The Net. San Francisco. Center for Electr Contact: (415)512-9300, *info@cea.edu* , or URL: *www.cea.edu/* .

January 25 Fitness For The Computer Athlete. San Fra Center for Electronic Art. Contact: (415)512-9300, *info@c* or URL: *http://www.cea.edu/* .

January 26–29 AutoCAD R14 3D Workshop. Santa Cla Copper Connection. Contact: (408)970-9838, *TeachACAD@a* or URL: *http://www.copperconn.com* .

January 28 Kurzweil, Dragon, and IBM Speech-Recogniti Demonstrations. San Mateo. Zephyr Training and Evalua (ZTEC). Contact: (415)655-2405, or URL: *http://m aol.com/zephyrbus/web/* .

January 29–February 19 Visual Design 1. San Francisco Electronic Art. Contact: (415)512-9300, *info@cea.e* *http://www.cea.edu/* . ■

User Group Network

BULLETIN BOARDS

209

Maverick's Quodtegitur BBS. (209)223-1590. 24 hrs., 33,600. DOOM/Wolfenstein 3-D files, 500+ flightsim files, RIP graphics. Free. Sysop: The Maverick. [Exp. #175.]

408

El Observador. (408)372-9054. Free Internet/Usenet. Text, humor, literature, rants, coffee, UFOs, and more. NIRVANAnet. [Exp. #176.]

Escape To Other Worlds BBS. (408)956-1745. 24 hrs., 28,800. Meet other people online through our matchmaker or online games. [Exp. #176.]

Hacker Heaven BBS. (408) 375-5455. 24 hrs., DOS, CP/M, Commodore, Atari, TRS80, etc. Experimental code forum, and support for older computers. Email and more. All welcome. Free. [Exp. #176.]

415

Flying High BBS. (415)467-2303. 24 hrs., 14,400–28,800. BRE, LORD, TEOS. Over 10,000 files, Windows 95/3.x. Callback verification required for new users. Totally free. [Exp. #176.]

realitycheckBBS. (415) 666-0339. Freedom of information, cigars, tech, text files, much more. NIRVANAnet. Sysop: Poindexter Fortran. [Exp. #176.]

Sherman's Shelter BBS. (415)872-0242. 8-N-1, Fido echo and more including Usenet connection. WildCat v4.20 with an ANSI or textual interface. Has a qwk door! Free. [Exp. #176.]

The Compound Eye. (415) 749-0426. Hip weirdness, no validation, free. NIRVANAnet. Sysops: Deekoo L. & Monde. [Exp. #176.]

TLC Net Server. (415)826-2116. 24 hrs., 33,600. LORD 4, games, chat, email, Telnet, FTP, PPP, POP3, Internet. [Exp. #176.]

Ultimate Force. (415)441-1120. 8-N-1, 24 hrs., 300–19,200. Online games, multi-message bases, files, 1.2GB. Only comlink network in Northern CA. Free access. [Exp. #176.]

510

Aaron Construction Company BBS. (510)521-0281. 8-N-1, 24 hrs., 1200–28,800. Construction information, files and Paul Revere Network conferences. Free. [Exp. #176.]

Camphor Fountain BBS. (510)439-0712. 24 hrs., FidoNet, Bahai'iNet, parenting, writer's club, recovery, spirituality. Since 1992. Free access. Sysop: Zaynab Richmond. [Exp. #176.]

Digital Richmond BBS. (510)231-9362. 8-N-1, 24 hrs., 28,800. Files, message nets, online games. Free. [Exp. #176.]

Greater Light Online. (510)741-5572, 754-6010. 24 hrs., Christian-oriented. Wildcat! 5 GUI. Files, games, message bases. Fee/free. Sysops: Michael Bryant, Beverly Reagan. [Exp. #176.]

Hypoxia BBS. (510)353-1310, 651-7328, 651-3876; URL: *http://www.geocities.com/SiliconValley/6056/hypoxia.html* . 24 hrs., 28,800. Open to Mac and PC. For the GUI client visit our Web site. Free basic access, $15/year for complete access. Sysop: Lord Lief. [Exp. #176.]

Red Dwarf BBS. (510)261-3966. 24 hrs., 300–28,800. WildNet, UFOnet, MSI SupportNet, messages, files. SciFi/RPG-based, but we offer more. All welcomed. FREE. Sysop: Earl Williams. [Exp. #176.]

The Little Village. (510)237-5338. 8-N-1, 24 hrs., 33,600. Files, message nets, online games. Free. [Exp. #176.]

The Stage. (510)251-2431. 24 hrs., Pagan-oriented. PODSnet, Nirvananet. Magickal library. Join the play. No validation, free. Sysop: Liana. [Exp. #176.]

& the Temple of the Screaming Electron. (510)935-5845. Full access on first call, seven lines, chat rooms, encryption, tattoos, phone info, drug questions answered, huge BBS list, NIRVANAnet, Contra Costa Net, free. [Exp. #176.]

Windows OnLine. (510) 736-8343, Telnet: WOLLY.WOLNET.COM , URL: *http://www.wolnet.com* . 8-N-1, 24 hrs., 33,600. Largest Windows BBS. Free limited trial. [Exp. #176.]

Wishing Well BBS. (510) 745-7901. up to 28,800. Over fifty-five registered online games, quality files, ANSI & RIP graphics, no validation, full access first call. Free! Sysop: MaryLou White. [Exp. #176.]

650

Bay Windows BBS. (650) 871-6965. 8-N-1, GT Power network v19. A very friendly BBS. Echo Mail sponsored here, no gifs/handles allowed. FREE BBS. Door games for caller. CD-ROM online, large collection of shareware updated for callers to download. Sysop: Judy. [Exp. #176.]

Kill-O-Byte BBS. (650) 344-1563. 24 hrs., 2400–33,600. Online files, CD-ROMs, games, film scripts, Amiga, IBM, OS/2, Windows. FREE! [Exp. #176.]

Lord Jesse's Castle. (650) 493-0607. 14,400. Friendly sysop. Twenty doors. Many message bases! We just got a cool door called Dogworld! Free. Sysop: Jesse Radin. [Exp. #176.]

Peninsula Computer BBS. (650)571-9259. 8-N-1, 24 hrs., 2400–28,800. GT Power Network v1900; email; nearly 2,000 files: DOS, OS/2, shareware, door games for callers. Sponsored by the Peninsula Computer Club. FREE BBS. URL: *http://www.sirius.com/~jlo* . Sysop: Bob Wallace. [Exp. #176.]

The Benchmaster's BBS. (650)473-3980. 8-N-1, 24 hrs., 28,800. Files and messages for the Amiga computer only. Free. [Exp. #176.]

The Floor Show. (650)952-3231. Messages, files, games. Full access at first call. No validation/ratios. Novices welcome. Free. Sysop: Donna. [Exp. #176.]

707

Monkey Glands. (707)542-5587. Linux-based system in Santa Rosa. No validation, free. Sysop: Magic Man. [Exp. #176.]

Is Your Listing Missing?

Free user group and association listings are limited to the group's name, meeting information, contact name and phone number, and a ten-word description. They will be **deleted at six-month intervals** to ensure timeliness and accuracy of information.

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You can update or renew your listings at any time. If yours is missing, send your listing information to:

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AMIGA

AWEST—Amiga Users In SF. Meetings: 2nd Wed., 6:30 pm, Excelsior Branch Public Library, 4400 Mission St. (near Ocean), San Francisco. Call: (415) 474-1164; BBS (415)441-1120. [Exp.#176.]

TOGA—The Other Group Of Amigoids. Meetings: 4th Sat., 12:30 pm, Milpitas Community Library Meeting Room, 40 N. Milpitas Blvd., Milpitas. An informal group to share ideas, PD software, and information. Free. Contact: Randy Abel, (408)356-9405 or *rabel1@dsp.com* ; Warren Burnham, (408)252-3406 or *wburn46506@aol.com* ; URL: *http://www.calweb.com/~rabel1* . [Exp.#179.]

ATARI

ABACUS—Atari Bay Area Computer Users Society. Meetings: 1st Sat., 1:00 pm, Potrero Branch Public Library, 2nd floor, 1616 20th St., San Francisco. Supporting all Atari computers and video games systems. Call: Roger Sinasohn, (415)469-7924, BBS (415) 564-8062. [Exp.#176.]

San Leandro Computer Club. Meetings: 1st Tues., 8:00 pm, San Leandro Main Library, Estudillo Room, 300 Estudillo Ave. Call: Robbie, (510)797-5636. [Exp.#179.]

CAD

San Francisco 3D Studio User Group. Check Web site for location, date, subject and other information. URL: *http://www.sf3dsug.com* . [Exp.#175.]

COMMODORE

CHUG (Commodore Hayward User Group). Meetings: 2nd Sat., 2:00-4:00 pm, Palma Ceia Park Clubhouse, Hayward. Commodore 64 and 128 owners are welcome to attend. Call: (510)793-7868. [Exp.#176.]

CWEST—Commodore 64/128 Users In SF. 2nd Wed., 6:30 pm, Excelsior Branch Public Library, 4400 Mission (near Ocean), San Francisco. Call; (415)474-1164; BBS (415)441-1120. [Exp.#176.]

Diablo Valley Commodore Users Group. Meetings: 3rd Thurs., 7:00 pm, Clayton Valley Presbyterian Church, 1578 Kirker Pass Rd., Clayton. Call: (510) 689-3224. [Exp.#176.]

FUNHUG (Fremont, Union City, Newark, Hayward User Group). Meetings: 3rd Thurs., 7:30 pm, Newark Public Library, 6300 Civic Terrace Ave., Newark. For the Commodore 64/128 computer. Call: (510)793-7868. [Exp.#176.]

IBM AND COMPATIBLES

AT&T Computer Users Group. Meetings: 1st Wed., 7:00 pm, 50 Fremont St., 40th Floor (near 1st and Mission), San Francisco. Demonstrations, technical support, informal discussion. Call: (415)885-6631. [Exp.#176.]

Berkeley PC Users Group—BPCUG. Meetings: 2nd, 3rd, and 4th Tues., 7:00 pm, Winner's Circle Systems, 2618 Telegraph Ave., Berkeley. Public domain library, newsletter, and separate Beginners Special Interest Group meeting. Contact: Mel Mann, (510)526-4033 or *melmann@aol.com* . [Exp.#176.]

Business Operations SIG of the Software Forum. Meetings: 1st Thurs., 7:00 pm, Palo Alto. Free to members, $10 for non-members. Contact: Brian Tien, *brian@leansoft.com* . [Exp.#175.]

Diablo Valley User Group—DVPC. Meetings: 1st Thurs., 7:00 pm, Bank of America, Bldg. B, 2001 Clayton Rd. at Galindo, Walnut Creek. SIGs include Internet, Windows, Beginner's, Visual Basic, education/entertainment, and more. Call: Craig Peterson, (510)556-1449, *bod@dvpc.org* , or URL: *http://www.dvpc.org* . [Exp.#179.]

East Bay FOG. Meetings: 2nd Wed., 7:30 pm, Episcopal Church of St. John-in-Montclair, 1707 Gouldin Rd., Oakland. All microcomputers, MS-DOS, CP/M. Call: (510)653-2627, 8 am–10 pm. [Exp.#176.]

Golden Gate Computer Society. Meetings: 4th Mon., 7:00 pm, San Rafael Community Center, 618 B St., San Rafael. Free intro to computers class at 6:00 pm. Call: (415)454-5556, or URL: *http://www.ggcs.org* . [Exp.#179.]

Napa Valley PC Users Group. Meetings: 2nd Wed., 7:30 pm. Guests welcome. Call: Lee Schwab, (707)257-2675, *programs@nvpcug.org* , or URL: *http://nvpcug.org/* for details and location. [Exp.#176.]

PC Clubhouse. Meetings: 1st Fri., 7:30 pm, swap at 7:00 pm, Meiklejohn Hall, Room 2002 (inside 1009), CSU Hayward. Learn more about your computer. Product demos. Member help. Call: (510)538-2449, (510)276-6450, or URL: *http://www.pcc.org* . [Exp.#176.]

Peninsula Computer Club. Meetings: 2nd Thurs., 7:30 pm, 222 Laurel St., San Carlos. DOS and CP/M libraries. Call: (650)593-9981, BBS (650)571-9259, or *laryw3553@aol.com* . [Exp.#179.]

San Francisco Business Computers. Meetings: 4th Tues., 5:30 pm, 110 Pacific, #153, San Francisco. For people who use computers in their work. Visitors $10. Call: (415)788-5338 or *sfbc@juno.com* . [Exp.#176.]

San Francisco PC Users Group. Meetings: 3rd Tues., 7:30 pm, PUC Auditorium, 505 Van Ness Ave./McAllister. Presentations, Q&A sessions. Call: Jerry Stern, (415)572-1100 or 777-1332 for recorded events message. URL: *http://www.sfpcug.org/~group* . [Exp.#176.]

Stanford Palo Alto Users Group For PC (SPAUG). Meetings: final Wed., 7:30 pm, Conference Center at EPRI, 3412 Hillview, Palo Alto. All welcome. Call: Bev Altman, (415)368-9530 or 329-8252. [Exp.#176.]

continued on page 216

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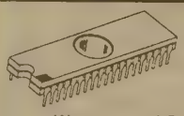

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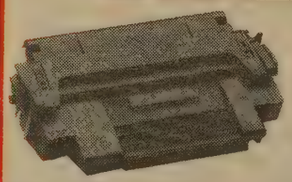

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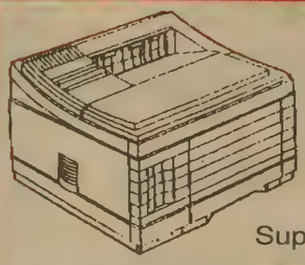

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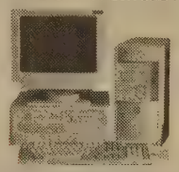

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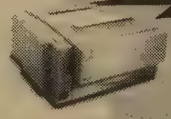

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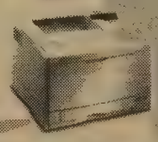

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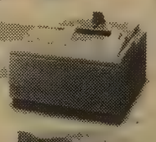

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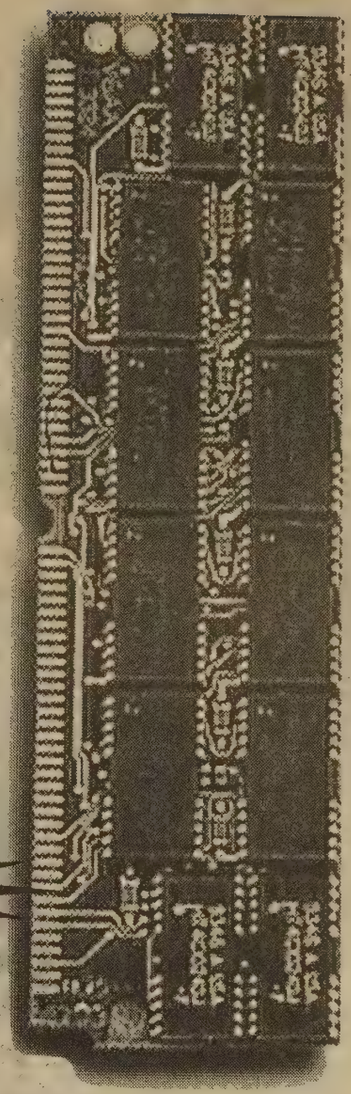

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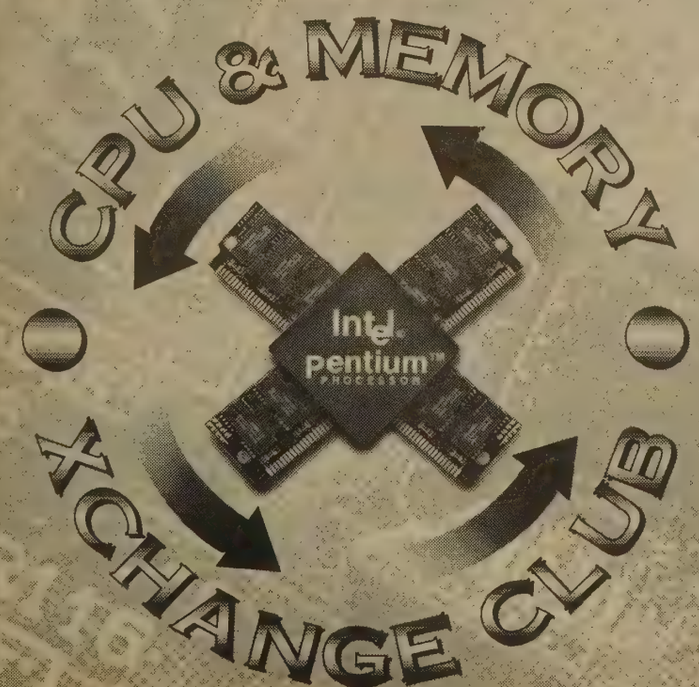

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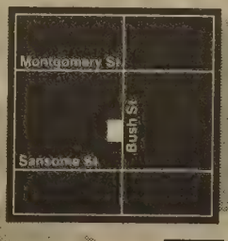

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USER GROUPS continued from page 202

INTERNATIONAL

International Software SIG Of the Software Forum. Meetings: 4th Mon., 7:00 pm, Palo Alto. Free to members, $10 for non-members. Contact: Charlie Pfefferkorn, *charliep@crystal-media.com*. [Exp.#175.]

INTERNET

Internet Development SIG Of The Software Forum. Meetings: 4th Tues., 7:00 pm, San Francisco. Free to members, $10 for non-members. Contact: Scott Rozic, *scott@sfsoftware.com* . [Exp.#175.]

Internet SIG of the Association of Database Developers (A.D.D.). Meetings: 3rd Tues., 7:00 pm, CyberWorld Cafe, 526 Folsom St., San Francisco. Contact: Patrick Lynch, (510)482-5329, 482-5752 (fax), *patl@a.crl.com* , or URL: *http://www.well.com/user/add/cal.htm* . [Exp.#175.]

Internet SIG Of The Software Forum. Meetings: 2nd Wed., 7:00 pm, Palo Alto. Free to members, $10 for non-members. Contact: Dave McClure, *daveaslan@msn.com* . [Exp.#175.]

SVCS Internet SIG. Meetings: 1st Mon., 7:30 pm, Baker's Square Restaurant, 2910 El Camino Real, Santa Clara. Contact: URL: *http://www.svcs.org/sigs/inet.html*. [Exp.#176.]

LEGAL

SF Bar Assoc. WordPerfect User Group. Meetings: 3rd Wed. odd-numbered months, noon, 465 California St., 11th floor, Boardroom. Chair: Al Buchignani. Call: (415)421-5650. [Exp.#179.]

MACINTOSH

Association Of A32 Users. Meetings: 2nd Sat., 10:00 am–noon, Sunnyvale Community Center Arboretum, 550 E. Remington Ave (near the corner of El Camino and Fair Oaks). A non-profit computer users group (Mac, Newton and other GUI). Q&A session; guest speakers and vendor demonstrations; shareware, freeware, and PD software disks. Call: (408)881-0790, BBS: (408) 378-8252. [Exp.#175.]

BMUG—Berkeley Macintosh User Group. Meetings: every Thurs., 6:30 pm, 2055 Center St., Berkeley (1/2 block south of Berkeley BART at Shattuck). BMUG is the World's Largest Macintosh User Group. All meetings are free, membership not required. Several SIGs also meet in the main office. Call: (510)549-BMUG, or URL: *http://www.bmug.org*. [Exp.#179.]

Diablo Valley Macintosh User Group (DVMUG). Meetings: 3rd Tues., 7:00 pm, Bancroft Elementary School, 2200 Parish Dr., Walnut Creek. Call: Tom Bacon, (510)945-4548 or URL: *http://www.designlink.com/dvmug*. [Exp.#175.]

SLAEUG—San Leandro Mac User Group. Meetings: 1st Thurs., 7:30 pm, San Leandro High School, 2200 Bancroft Ave., San Leandro. Best DOM (3 disks) anywhere. Call: Stan (510)351-3973 or *skline@concentric.net*. [Exp.#179.]

The Gay Macintosh User Group (GMUG). Meetings: 4th Thurs., 7:30 pm, St. Francis Lutheran Church, 152 Church St., San Francisco. We have answers to your Mac-related questions and members can win free software. Contact: (415) 552-GMUG, or URL: *http://www.gmug.org*. [Exp.#176.]

TriValley Macintosh User Group (TMUG). Meetings: 3rd Tues., 7:30 pm, Sonoma School, 543 Sonoma Ave., Livermore. Q&A, DOM, vendor presentations. Book, CD, MacAcademy training libraries. Free to public. Call: Jerry, (510)830-8838. [Exp.#176.]

MISCELLANEOUS

FileMaker Pro Database Interest Group (DIG.FM). Meetings: 3rd Thurs., 7:00 pm, Claris Corp., 5201 Patrick Henry Dr., Santa Clara. Presentations, demos, and tips by and for passionate users of FileMaker Pro for both Mac and Windows. Not affiliated with Claris. Free. Contact: *info@digfm.org* , or URL: *http://www.digfm.org* [Exp.#176.]

Marketing SIG Of The Software Forum. Meetings: 2nd Mon., 7:00 pm, Palo Alto. Free to members, $10 for non-members. Contact: Stan Trumbull, *strum@bayarea.net*. [Exp.#175.]

MS Access Peninsula User Group. Meetings: 2nd Fri., 1:00 pm, Metro Center Building, 9th floor, Foster City. All welcome from beginners to professionals. Contact: URL: *http://www.rampage.net/accdocs/sigs/htm*. [Exp.#175.]

PACGUG—Palo Alto Computer Game User Group. Now accepting members. $20/year membership fee. Contact: *kkp@accuserve.net*. [Exp.#175.]

Society for Technical Communication. Meetings: 3rd Weds., 6:00 pm, London Wine Bar, 415 Sansome St., San Francisco. For technical writers and editors. Newsletter, annual competition. Non-members, $12. Contact: (415)985-7121, URL: *http://stc.org/region8/sfc/www*. [Exp.#175.]

MULTIMEDIA

Multimedia SIG Of The Software Forum. Meetings: 4th Thurs., 7:00 pm, Cubberly Community Ctr., 4000 Middlefield Rd., Rm. H-1, Palo Alto. $10. Contact: Mike Schmit, *mschmit@compcore.com* . [Exp.#179.]

NETWORKING

EBNUG (East Bay Netware User Group). Meetings: 3rd Thurs., 6:30 pm, Bayer Auditorium, 800 Dwight Way, Berkeley. Contact: (510)705-5543; for more information contact Andy Zutler at (408)524-2600 or *AZutler@Radiolan.com* . [Exp.#175.]

South Bay Novell User Group. Meetings: 2nd Thurs., 6:00 pm, Novell offices, 2275 Trade Zone (at Lundy, off Montague east of 101), San Jose. Buffet, vendor presentations, technical education, user forums, "Networking in Hell" stories. Contact: (650)525-4567 or *ALLANH@SBNUG.ORG* [Exp.#179.]

NOVELL

Novell Users Group of Monterey/Salinas/Santa Cruz. Meetings: 3rd Thurs., 6:30 pm, 40 Ragsdale Dr., (Ryan Ranch), Monterey. Membership: $25/year or $5/meeting. Contact: *jspencer@redshift.com* . [Exp.#179.]

OS/2

OS/2 Bay Area User Group. Meetings: 4th Mon., 7:00 pm, Stanford Linear Accelerator Center Auditorium, 2575 Sand Hill Rd., Menlo Park. Free to members, non-members $3. Presentations, demonstrations, technical discussions. Call: (510)945-7565 ext. 100, or URL: *http://www.davebsoft.com/os2baug*. [Exp.#175.]

PROGRAMMING LANGUAGES

Berkeley Java Users Group. Visit bjugNET to find out why we live, breathe, and speak Java. Meetings twice a month in Berkeley. Contact: *tpc@bjug.net*. [Exp.#175.]

Delphi SIG Of The Software Forum. Meetings: 2nd Weds., 7:00 pm, North Bay. Free to members, $5 for non-members. Contact: Bjarne Winkler, *nts4618086@aol.com*. [Exp.#175.]

Fox-VFP SIG of the Association of Database Developers (A.D.D.). Meetings: 1st Thurs., 7:00 pm, 124 Beale St., mezzanine level, San Francisco. Contact: Dean Lesner, (415)788-4366, *dlesner123@aol.com* , or URL: *http://www.well.com/user/add/cal.htm* . [Exp.#175.]

Java SIG of the Association of Database Developers (A.D.D.). Meetings: 1st Wed., 7:00 pm, 124 Beale St., mezzanine level, San Francisco. Contact: Mark Carranza, *mc2@surf.com* , or URL: *http://www.well.com/user/add/cal.htm* . [Exp.#175.]

Java SIG of the Software Forum. Meetings: 1st Mon., 7:00 pm, Cubberly Community Ctr., 4000 Middlefield Rd., Rm. H-1, Palo Alto. Free to members, $10 for non-members. Contact: Tom Hill, *javasig@worldware.com* . [Exp.#175.]

Visual Basic–San Francisco SIG of the Software Forum. Meetings: 3rd Thurs., 6:30 pm, San Francisco. Free to members, $10 for non-members. Contact: Bill Storage, *storage@nervenet.com*. [Exp.#175.]

Visual Basic–Silicon Valley SIG of the Software Forum. Meetings: 2nd Thurs., 6:00 pm, Palo Alto. Free to members, $10 for non-members. Call: Allan Colby, *acolby@guidex.com*. [Exp.#175.]

VRML SIG of the Software Forum. Meetings: 3rd Tues., 7:00 pm, Mountain View. Contact: Katherine Bretz, *kbretz@fsc.fujitsu.com* . [Exp.#175.]

TEXAS INSTRUMENTS

TI-99/4A. Meetings: 2nd Sat., Oakland. Need programs/hardware? Call: Fred, (510)530-8335. [Exp.#179.]

UNIX

City College of San Francisco Linux Users Group. Meetings: Every Thurs., 3:00 pm, CCSF Student Union, MLK Center, 50 Phelan Ave., San Francisco. Free and open to all interested in Linux and/or UNIX. Contact: (415)239-3108, or *jhauck0@ccsf.cc.ca.us*. [Exp.#179.]

WINDOWS

Windows NT Engineering Association of Silicon Valley (NTEA). Meetings: Second Tues., 6:00 pm, Santa Clara County Office of Education building, 1290 Ridder Park Dr., San Jose. Idea exchange, new technology, job opportunities. Design, set-up, and troubleshooting servers, system administration, and software development issues. No fee for first-time participants. Contact: (408) 437-8803. [Exp.#176.]

Windows SIG Of The Software Forum. Meetings: 1st Weds., 6:30 pm, Palo Alto. Free to members, $20 for non-members. Contact: Fran Finnegan, *fran@fomci.com*. [Exp.#175.]

ASSOCIATIONS

Association For Women In Computing. Meetings: 1st Wed., 6:00 pm, standing room only, Crocker Galleria, 50 Post St., San Francisco. $10 members, $15 guests. Call: (415)979-8450. [Exp.#176.]

Association of Database Developers (ADD–SF). Contact: Barbara Paltiel, (415)345-0152, *barbara@paltielinc.com* , or URL: *http://www.well.com/user/add/cal.htm*. [Exp.#176.]

ICCA Silicon Valley. Meetings: 4th Tues., 6:00 pm, Hobbee's Restaurant, 920 Town and Country Village (Steven's Creek/ across from Valley Fair Mall), San Jose. Regularly-scheduled dinner meetings, $25 non-members/$20 members. Contact: Paul Stith, (408) 439-0870, ext 2, *info@icca-sv.org* , or URL: *http://www.icca-sv.org*. [Exp.#179.]

San Francisco Association of Internet Professionals. San Francisco. A membership- and chapter-driven organization with the ability to unify, support, and represent the global community of Internet professionals. See Web site for meeting times/ location. Contact: Jeff Ward, (408)899-2011, *jward@hotmail.com* , or URL: *http://www.association.org* . [Exp.#179.]

Society of Technical Communications, Silicon Valley Chapter. Meetings: 4th Tues. Objectives are to advance the arts and sciences of technical communication. Includes San Mateo, Santa Clara, and Santa Cruz counties. Contact: Gwen Johnson, (408)285-7942, or *Johnson_Gwen@tandem.com*. [Exp.#176.]

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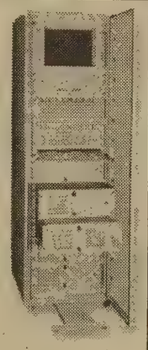

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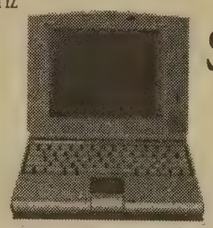

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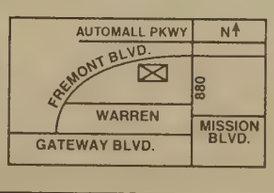

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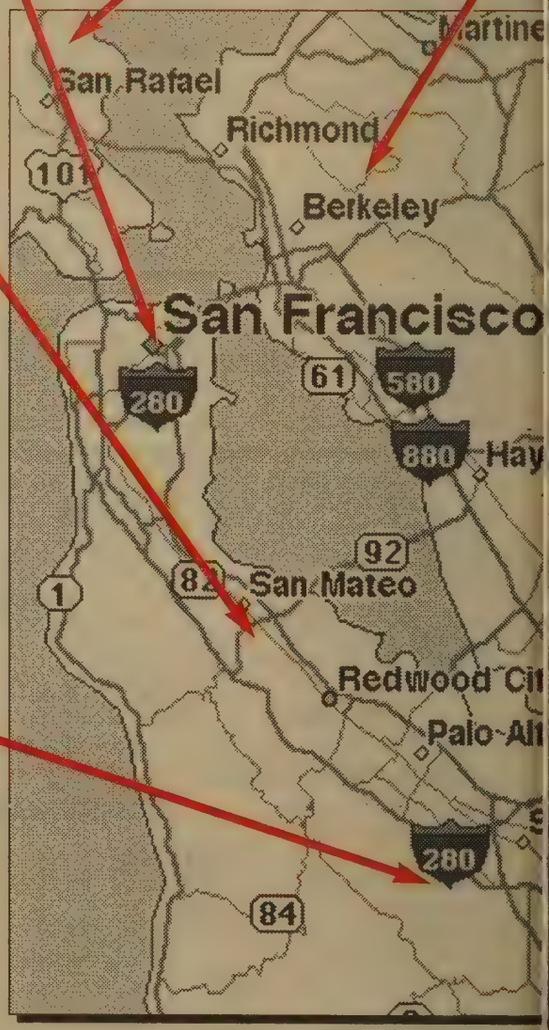

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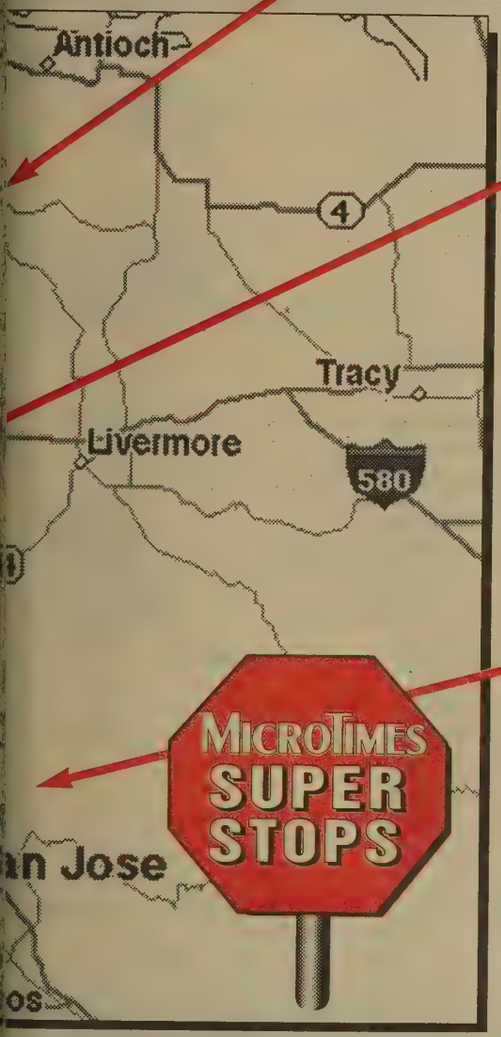

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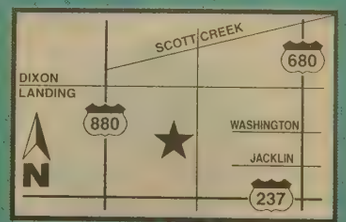

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intel inside
pentium PROCESSOR

RIVEN! *continued from page 190*

on five CD-ROMs (which I think may actually have something to do with the D'ni numbering system that plays such an important role in understanding many of *Riven's* puzzles, rather than just being a function of the vast quantity of media). More importantly, you'll need a moderately healthy and recent machine, particularly for the generous animations, some of which are quite astounding, and smooth sound play. Minimum requirements are for a 4x CD-ROM drive, 90MHz and 9MB of free RAM for a Mac, or 100MHz Pentium and 16MB of RAM on the Windows 95 side. I ran it on a considerably beefier system and it still choked on occasion. Read the requirements carefully and, if your machine isn't up to snuff, buy a new one—the wide world of *Riven* is worth it even with a slim story. ■

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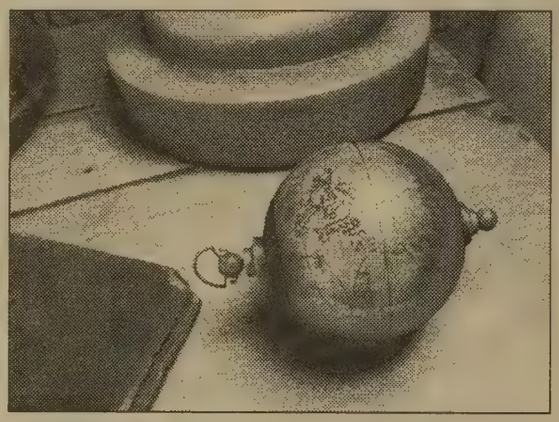

RESOURCES:

Riven
No suggested retail price.
Price will be set by individual stores—shop around!
Created and developed by Cyan, Inc.
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MultiMedia & BEYOND

QUICKTIME 3.0 *continued from page 194*

Visual QuickStart Guide by Maria Langer (Peachpit, 304 pp, $17.95) helps you set up OS 8, use utilities and applications—even PC files—and make tight connections to things like printers and the Internet. PowerBookers will appreciate their own chapter on optimizing and surviving on the road.

Web & New Media Pricing Guide by JP Frenza and Michelle Szabo (Hayden, 295 pp, $40.00) provides a valuable perspective for all of us media workers. It covers the factors that go into configuring costs and prices for Web and multimedia work, creating proposals and budgets, and other aspects of the new media marketplace, such as project management, intellectual property rights, and copyrights. This edition is already out of date, and may cite costs that would be higher in the San Francisco Bay Area, but the price guides are scaleable to reflect rate changes. Whether you are hiring or aspiring, this material can help to fine-tune your reality checks. ■

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Lon Poole's Mac OS 8 Bible has everything you would need to know about this latest version of the Macintosh operating system. But more than 800 pages for what is still the most easy-to-use graphical user interface (GUI)?

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* EIDE PCI built-in I/O 16550
*Diamond Fire 1000 Pro PCI 3D w/ 4MB SGRAM
* ATX Medium Tower 250W
* KeytronicWin95 keyboard
* Microsoft PS2 Mouse w/Pad
* Toshiba 24x CD-ROM
* Creative Labs AWE64
* Yamaha M7 speakers
*US Robotics 56K faxmodem
* Free Power Surge &CPU fan
* Windows 95B CD&Manual
* Impression 7plus .27 17" Monitor

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300MHz MMX	$2328
266MHz MMX	2098
233MHz MMX	1963

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* ATX Medium Tower
* KeytronicWin95 keyboard
* Logitech PS2 Mouse+Pad
* Toshiba 24X EIDE CD-ROM
* Creative Labs SB16
* 180 Watt Speakers
* US Robotics 56Kmodem
* Free Power Surge &fan
* Windows 95BCD&Manual
* MGC 17" Digital Monitor

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*Diamond Fire 1000 Pro PCI 3D w/ 4MB SGRAM
* ATX Medium Tower
* Keytronic PS2 95 keyboard
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* Toshiba 24x EIDE CD-ROM
* Yamaha stereo sound
* 180 watt speakers
*US Robotics Sporter 33.6
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* Windows 95B CD&Manual
* MGC 17" Digital Monitor

Pentium® Processor

233 MHz MMX	1681
200 MHz MMX	1600
166 MHz MMX	1511
150 MHz	1485
133 MHz	1480
100 MHz	1470
90 MHz	1460

LongTree w/ AWE64 add $70

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* Logitech Mouse w/ Pad
* Toshiba 24x EIDE CD-ROM
* Creative Labs SB16 pnp
* 180 watt Speakers
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Pentium® Processor

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Pentium® Processor

233 MHz MMX	1142
200 MHz MMX	1061
166 MHz MMX	972
150 MHz	946
133 MHz	941
100 MHz	931
90 MHz	920
AMD K6-233	1070
AMD K6-200	1023

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- US ROBOTICS 33.6
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Intel AN430TX P-200 MMX /512K	390
Intel AN430TX P-166 MMX /512K	311
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Intel AN430TX P-133 /512K	284
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Asus TX97E+ P200MMX/512K	345
Asus TX97E + P166MMX /512K	256
Asus TX97E + P150 /512K	230
Asus TX97E + P133 /512K	229
Asus TX97E + P100 /512K	212
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Asus TXP4 + P-133 /512K	214
Asus TXP4 + P-100 /512K	197
Asus TXP4 + AMD K6-233/512K	349
Asus TXP4+ AMD K6-200/512K	291
Asus TXP4 + AMD K6-166/512K	254
Asus P55T2P4+ P-200 MMX/512K	343
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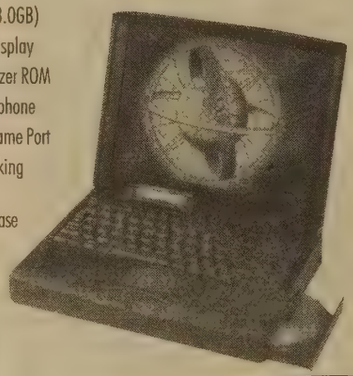

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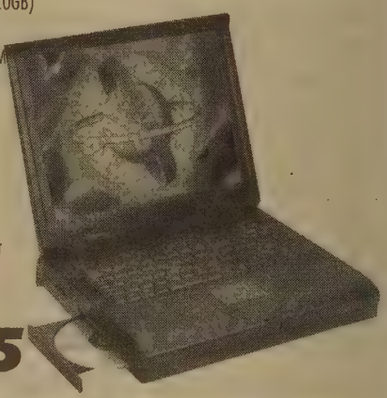
- NiMH Battery (Optional Li-Ion Battery), AC Adaptor, Carrying Case
- Optional MO Drive, 2nd Battery, Docking Station, Car Adaptor
- Windows 95 Release II w/Manual & CD
- 1 Year Parts & 3 Years Labor Warranty



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- S-Video Jack for Video Out
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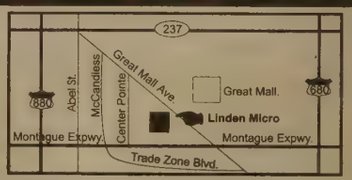

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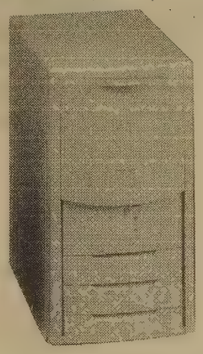

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- 4.3 GB EIDE HDD
- Microsoft 2-Button Serial Mouse and pad
- Matrox Millenium II 4MB
- Windows 95 Release II w/Manual & CD
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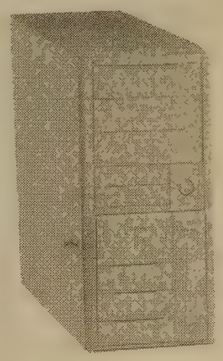

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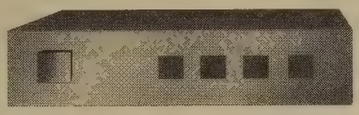

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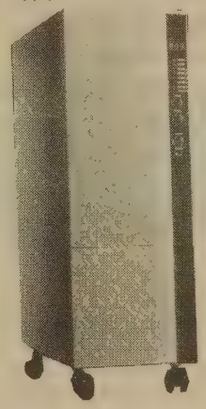

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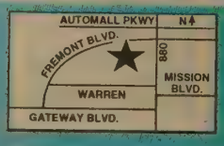

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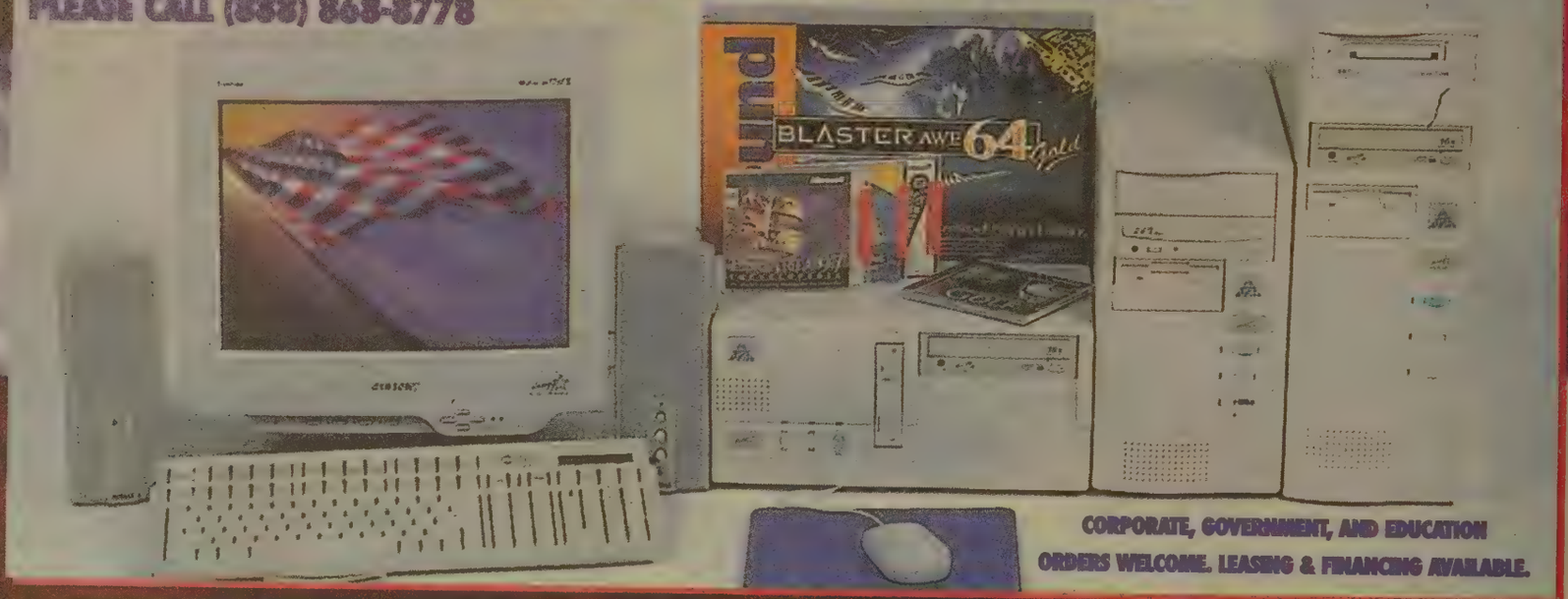

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AMD K6-P200/512K (INTEL TRITON TX)	84	248	368	458
AMD K6-P166/512K (INTEL TRITON TX)	84	208	328	418
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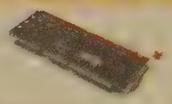

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Microsoft

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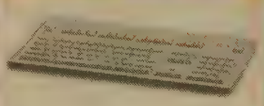

104-Key Keyboard for Windows 95.....$10

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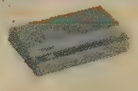

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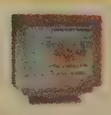

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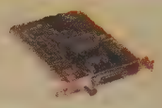

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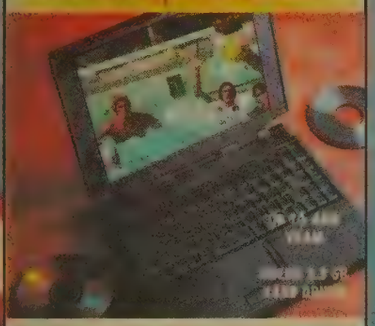

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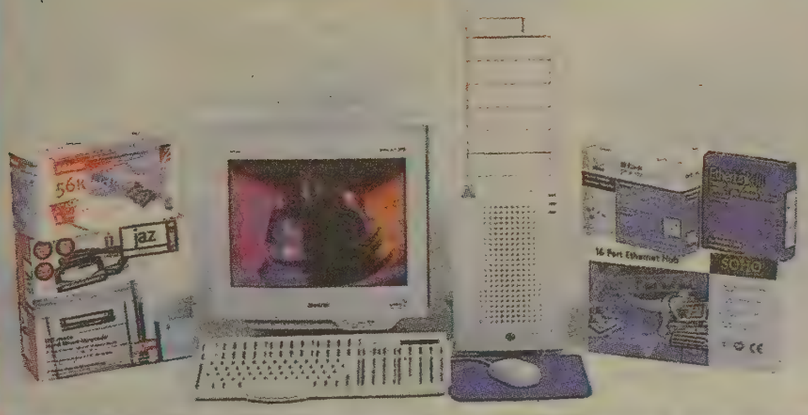

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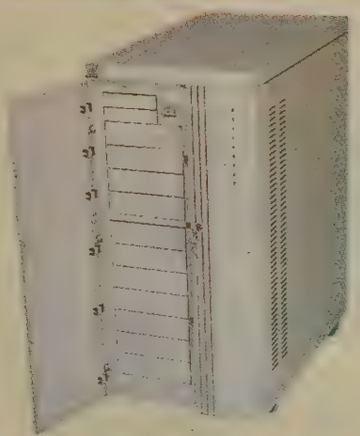

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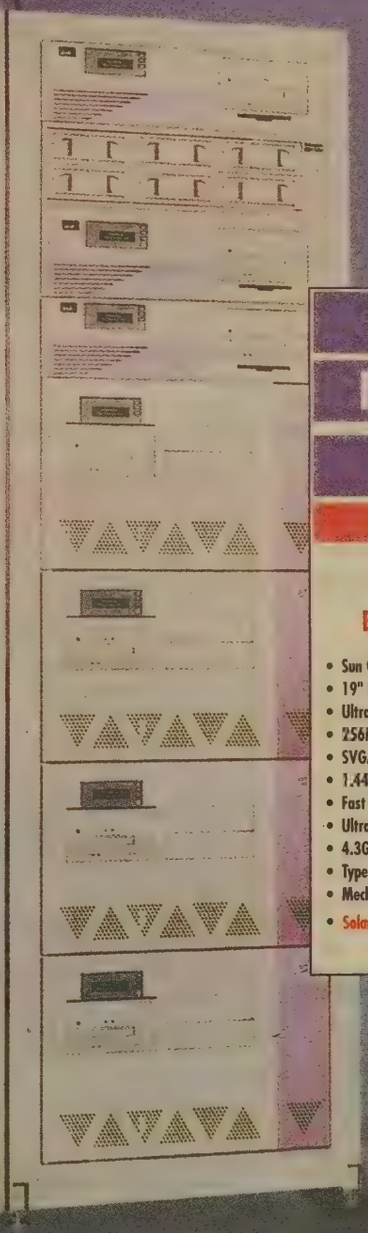

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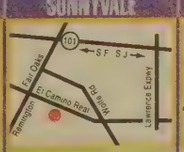

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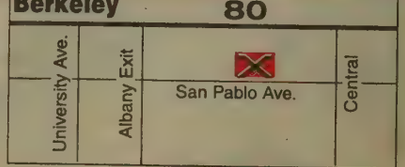

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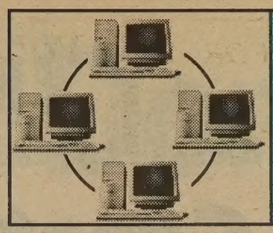

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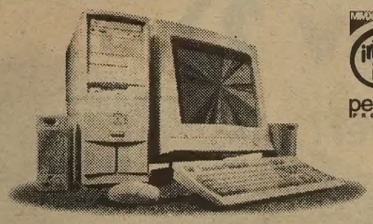

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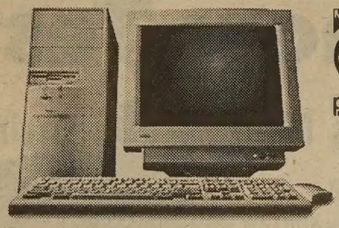

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The Great American Trade Show Test (rev 2)

Or, Can This Madness Continue Forever?

What's your trade show IQ?

Most people take trade shows too seriously. Here's a valuable trade show IQ test that I worked up so you can test yourself and see how you rate as a trade show attendee.

1. Before going to the trade show you must plan ahead. Which of the following best applies to your planning?

a) Find out who else might be there and make appointments to see them in advance.

b) Wait for people to call you to make the appointments.

c) Wait until the last minute to make appointments.

d) Tell everyone your calendar is full and make NO appointments so you can goof off the whole time.

2. You have to stay someplace. When deciding how much to spend on a hotel do you:

a) Find a high-quality inexpensive hotel and book months in advance?

b) Get a cheap room in a luxury hotel and book months in advance?

c) Get what you can at the last minute?

d) Find a suite and tell the bookkeepers that's all that was available.

3. Which of the following best describes your morning while you're attending a trade show?

a) Get up at 7 am. Shower. Read the morning paper. Go to an 8 am sales meeting or product introduction breakfast.

b) Get up at 7 am. Shower. Order room service and have a big breakfast. Review previous days notes and the day's schedule.

c) Get up at 8 am. Shower. Have a continental breakfast. Read the paper and go straight to the show.

d) Sleep in until 11 am and tell the boss you had appointments all morning.

4. How do you like to approach your first encounter with the exhibit halls?

a) You start by sitting down with the guide to the show and with your Day-Timer to carefully map out the days activities.

b) Go straight onto the show floor to see what seems important and new.

c) Go onto the floor and ask people if they've seen anything interesting, then go there.

d) Look for the booths with the cutest hostesses and go there.

5. When in a booth or exhibit area do you mostly:

a) Find a company representative and have him show you what's important?

b) Wander around the area and read each blurb on the walls near the products?

c) Pick up some literature and leave a card?

d) Hit on the hostesses and try to get a date for that night?

6. After the show closes for the day do you mostly:

a) Go back to the hotel and review what you did that day and make preliminary plans for tomorrow?

b) Discuss the show with a partner?

c) Go back to the hotel and watch TV?

d) Go directly to the hotel events board and find where the hospitality suites are, and then go there to get free drinks?

7. What best describes your attitude towards drinking at a hospitality suite?

a) Order Calistoga water or Perrier with a twist and make it known you have to be clear-headed. After all, tomorrow is a busy day.

b) Have one micro-brew then leave.

c) Have a couple of glasses of wine.

d) Look into the bar area and find the most expensive cognac they have. Order it. Minimally, if they don't have a decent cognac, complain to the party giver.

8. When a hospitality suite has food do you:

a) Have a few pieces of the most healthy foods highlighting the celery and dip?

b) Eat only cheese?

C) Eat some lean roast beef?

D) Pig out on lobster and crab?

9. When invited to a big evening event such as a rock and roll party, what do you do?

a) Decline the invitation because there are better ways to spend your time.

b) Go to the party in hopes that you can make a few business contacts.

c) Go to the party to unwind.

d) See if you can get more invitations and hand them out to people as though you're a big shot.

10. After a big trade show is over and you return home, do you:

a) Review the show with associates? File the brochures and make notes on who to call for follow up?

b) Go back to work, write a short memo about the show and brief other employees?

c) Put the show out of your mind for a few days and place the literature in a basket to be read later?

d) Moan and groan about how tough the show was and how you need a vacation?

Scoring: For each answer where you said "A" give yourself 10 points. "B" scores 6, "C" scores 4 and "D" scores zero.

If you scored 100 points, you are one heck of an employee. You take the job so seriously that it is doubtful whether you really need to go to a trade show.

80–100 means you show some signs of improvement over the perfect score. At least you think about something other than business once in a while.

50–80 is the normal range for the modern show attendee. You are simply normal if you fall into this category.

1–50 means you try your best to mix business with pleasure.

A score of zero indicates you are one heck of a party animal. Congratulations. If anyone has fun at a trade show it's you. ■

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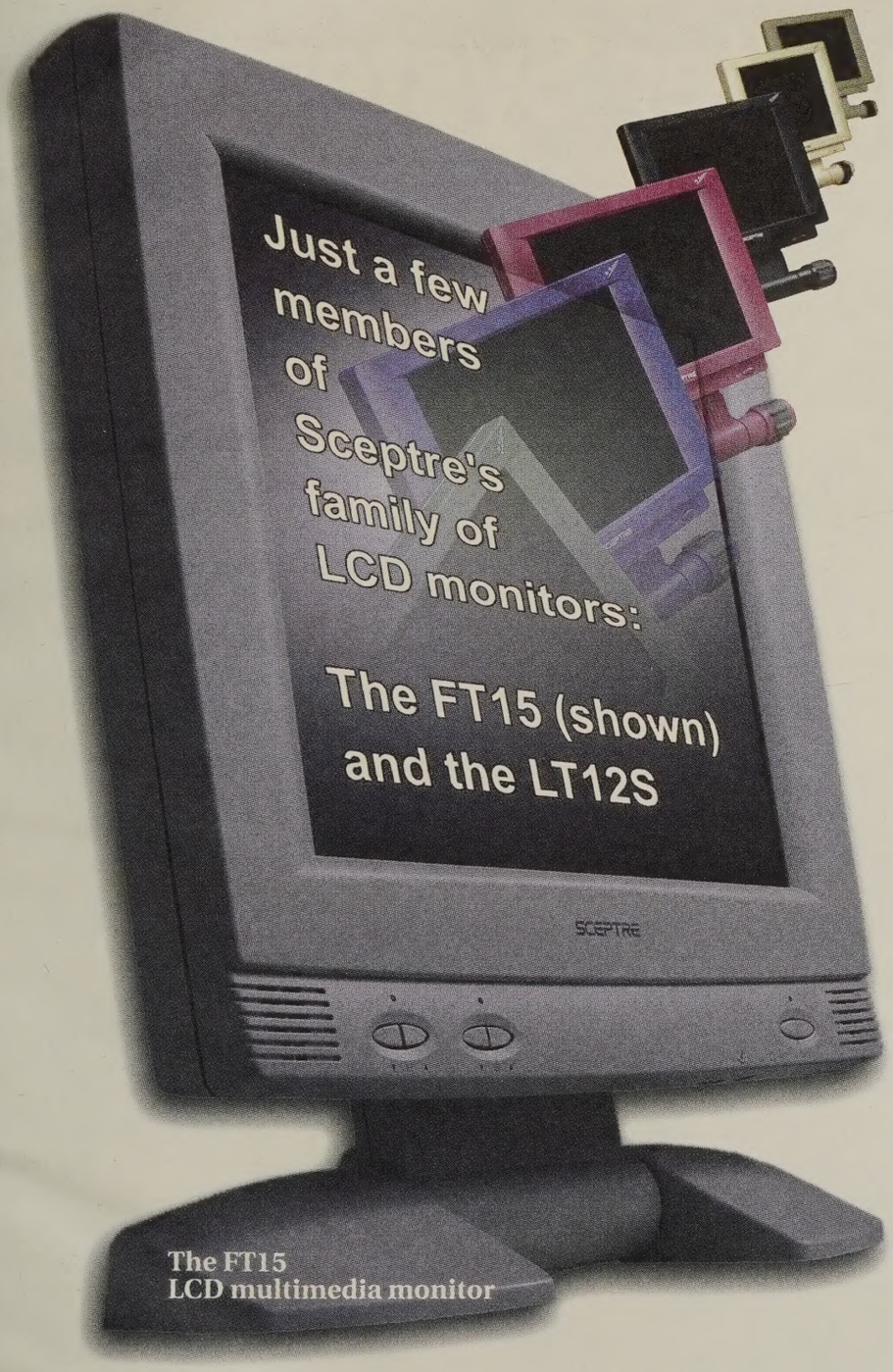
Been There, Done That!



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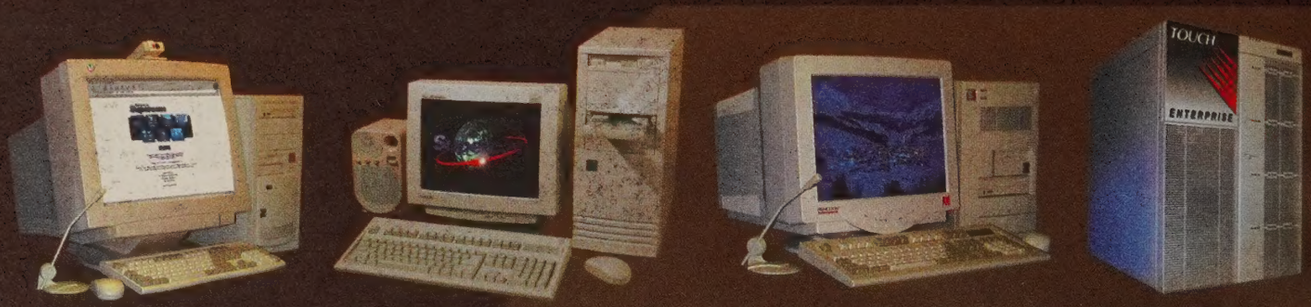

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